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11/29

From: CR
Sent: CR
To: FE
Subject: RE: Marvich, Maria
Monday, December 12, 2005 7:33 AM
STIC-Biotech/ChemLib

10/648361

Please search SEQ ID NO:2 (not interference) 187 amino acids.

Thank you

-----Original Message-----

From: STIC-Biotech/ChemLib
Sent: Monday, December 12, 2005 7:32 AM
To: Marvich, Maria
Subject: RE:

I need your Serial number for this request. maude

-----Original Message-----

From: Marvich, Maria
Sent: Sunday, December 11, 2005 10:12 AM
To: STIC-Biotech/ChemLib
Subject:

Please search SEQ ID NO:2 (not interference) 187 amino acids.

11/29
Maria Bonovich Marvich, PhD
United States Patent and Trademark Office
Remsen 2B84
AU 1633
Mail Box 2C70
571-272-0774

Searcher: _____
Searcher Phone: _____
Date Searcher Picked up: _____
Date completed: _____
Searcher Prep Time: _____
Online Time: _____

Type of Search
NA# _____ AA# _____
S/L: _____ Oligomer: _____
Encode/Transl: _____
Structure #: _____ Text: _____
Inventor: _____ Litigation: _____

Vendors and cost where applicable
STN: _____
DIALOG: _____
QUESTEL/ORBIT: _____
LEXIS/NEXIS: _____
SEQUENCE SYSTEM: _____
WWW/Internet: _____
Other (Specify): _____

Searcher: Beverly e 2528
Terminal time: _____
Elapsed time: _____
CPU time: _____
Total time: _____
Number of Searches: _____
Number of Databases: _____

Type of Search
STC
CM-1
Pre-S
N.A. Sequence
A.A. Sequence
Structure
Bibliographic

Vendors
IG _____
STN _____
DIALOG _____
APS _____
Geninfo _____
SDC _____
DARC/Questel _____
Other (C) _____

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Result No.	Score	Query	Match	Length	DB ID	Description
1	768	78.1	187	2	Q8CC36_MOUSE	Q8CC36 mus musculu
2	538	54.7	179	1	ARMET_MOUSE	P5145 homo sapien
3	532	54.1	179	1	ARMET_MOUSE	09Cx15 mus musculu
4	530	53.9	180	2	Q63ZM4_XENLA	Q63ZM4 xenopus lae
5	530	53.9	201	2	Q7VZY7_XENLA	Q7VZY7 xenopus lae
6	505	51.4	165	2	Q80ZP8_MOUSE	Q80ZP8 mus musculu
7	430	43.7	126	2	Q7SZ63_XENLA	Q7SZ63 xenopus lae
8	399.5	40.6	172	2	Q7QD98_ANOGA	Q7Qd98 anophelis g
9	393	40.0	173	1	ARMET_DROME	Q9xzZ63 drosophila
10	364.5	37.1	168	1	ARMET_CAEEL	Q9nb3b0 caenorhabdi
11	356	36.2	169	1	Q61B22_GABBR	Q61B22 caenorhabdi
12	344	35.0	147	2	Q6B8B2_IXODES_PACI	Q6b8B2 ixodes paci
13	334	34.0	152	2	Q4TOD1_TETNG	Q4t0d1 tetroodon n
14	314.5	32.0	184	2	Q5DHK5_SCHJJA	Q5dhk5 schistosoma
15	95.5	9.7	1558	2	Q4SEM9_TETNG	Q4sem9 tetroodon n
16	93.5	9.5	540	2	Q8PW48_METMA	Q8pw48 metmanosarc
17	93.5	9.5	1071	2	Q96V10_DNECA	Q96v10 pneumocysti
18	92	9.4	283	2	Q7VFE6_HELHP	Q7Vfe6 helicobacte
19	92	9.4	294	2	Q95X03_NAEFO	Q95x03 naegleria f
20	92	9.4	307	2	Q8BKM2_TAEOF	Q8bkm2 naegleria f
21	92	9.4	853	2	Q4P3R3_USTMA	Q4p3r3 ustilago ma
22	91	9.3	481	2	Q82TP6_NITEU	Q82tp6 nitrosomonas
23	90.5	9.2	1026	2	Q74694_PNEJI	Q74669 pneumocysti
24	89.5	9.1	299	2	Q5C7U4_CRYPV	Q5cu74 cryptospori
25	89.5	9.1	299	2	Q8CE54_CRYHO	Q8ce54 cryptospori
26	89.5	9.1	309	2	Q8B1078_MOUSE	Q8b10t8 mus musculu
27	89.5	9.1	347	2	Q5BH60_EMENI	Q5bh60 aspergillus
28	89.5	9.1	588	2	Q83R46_SHIFL	Q83r46 shigella fl
29	89.5	9.1	610	1	UVRC_ECC07	UVRC_ECC07
30	89.5	9.1	610	1	UVRC_ECOL6	UVRC_ECOL6
31	89.5	9.1	610	1	UVRC_ECOLI	UVRC_ECOLI

[4]	NUCLEOTIDE SEQUENCE STRAIN=C5BL/6J; TISSUE=Diencephalon; RC MEDLINE=2049374; PubMed=1104215; DOI=10.1101/gr.145100; RA Carninci P., Shihata Y., Hayashita N., Sugahara Y., Shibata K., Itoh M., Kono H., Okazaki Y., Muramatsu M., Hayashiaki Y.; RT prepare full-length cDNA libraries for rapid discovery of new genes.; RL Genome Res. 10:1617-1630 (2000).	RN [1]	DE ARMET protein precursor (Arginine-rich protein). GN Name=ARMET; Synonyms=ARP; OS Homo sapiens (Human). OC Buxaroota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominoi; Homo. OC
[5]	NUCLEOTIDE SEQUENCE STRAIN=C5BL/6J; TISSUE=Diencephalon; RC MEDLINE=20530913; PubMed=1107686; DOI=10.1101/gr.152600; RA Shibata K., Itoh M., Aizawa K., Nagaoaka S., Sasaki N., Carninci P., Kono H., Akiyama J., Nishi K., Kitamura T., Tashiro H., Itoh M., Sumi N., Ishii Y., Nakamura S., Hachisu M., Nishine T., Harada A., Yamamoto R., Matsuimoto H., Sakaguchi S., Ikegami T., Kasaiwagi K., Fujiiwaki S., Inoue K., Togawa Y., Iizawa M., Ohara E., Watahiki M., Okazaki Y., Ishikawa T., Ozawa K., Tanaka T., Hayashizaki Y.; RT "RIKEN integrated sequence analysis (RISA) system-384-format sequencing pipeline with 384 multicapillary sequencer."; RL Genome Res. 10:1757-1771 (2000).	RN [6]	DE NUCLEOTIDE SEQUENCE STRAIN=C5BL/6J; TISSUE=Diencephalon; RC MEDLINE=96211400; PubMed=6649854; RA Shridhar V., Rivard S., Mullins C., Bostick L., Saks W., VARIANT. RT "A gene from human chromosome band 3P21.1 encodes a highly conserved arginine-rich protein and is mutated in renal cell carcinomas."; RL Oncogene 12:1931-1939 (1996).
[6]	NUCLEOTIDE SEQUENCE STRAIN=C5BL/6J; TISSUE=Diencephalon; RC MEDLINE=22388257; PubMed=242603899; RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G., Klausner R.D., Collins F.S., Wagner L., Shenmam C.M., Schuler G.D., Altschul S.F., Zeeberg B., Buetow K.H., Schaeffer C.F., Bhat N.K., Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Haieh F., Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L., Stepleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheerz T.B., Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C., Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullally S.J., Boak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunnarathne P.H., Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W., Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A., Fahy J., Helton E., Kettman M., Madan A., Rodriguez S., Sauciez A., Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G., Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C., Rodriguez A.C., Grimwood J., Schmitz J., Myers R.M., Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smilus D.E., Schenck A., Schein J.E., Jones S.J.M., Marrs M.A.; RT "Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences."; RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).	RN [7]	DE NUCLEOTIDE SEQUENCE STRAIN=C5BL/6J; TISSUE=Diencephalon; RC MEDLINE=12477932; PubMed=10.1073/pnas.242603899; RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G., Klausner R.D., Collins F.S., Wagner L., Shenmam C.M., Schuler G.D., Altschul S.F., Zeeberg B., Buetow K.H., Schaeffer C.F., Bhat N.K., Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Haieh F., Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L., Stepleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheerz T.B., Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C., Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullally S.J., Boak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunnarathne P.H., Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W., Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A., Fahy J., Helton E., Kettman M., Madan A., Rodriguez S., Sauciez A., Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G., Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C., Rodriguez A.C., Grimwood J., Schmitz J., Myers R.M., Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smilus D.E., Schenck A., Schein J.E., Jones S.J.M., Marrs M.A.; RT "Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences."; RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
[7]	Query Match 78.1%; Score 768; DB 2; Length 187; Best Local Similarity 77.5%; Pred. No. 4.4e-56; Matches 145; Conservative 16; Mismatches 26; Indels 0; Gaps 0; SQ MWCAASPVAVVAFCGGLVSHPVLTQGQEGGRPGADCEVCKEFLNRPKVKSLLDORGVNGL 60	RN [8]	DE PROTEIN SEQUENCE OF 22-36. RC MEDLINE=12665801; PubMed=10.1038/nbt810; RA Gevaert K., Goethals M., Martens L., Van Damme J., Staes A., Thomas G.R., Vandekerchove J.; RT "Exploring proteomes and analyzing protein processing by mass spectrometric identification of sorted N-terminal peptides."; RL Nat. Biotechnol. 21:566-569 (2003).
[8]	Query 1 MRC1SPTALVTPFCAGFCISNPVLAQGLEAVGVPGRADCEVCKEFLDRFTNSLRSGIDSA 60	RN [9]	DE DISCUSSION OF A PUTATIVE CANCER VARIANT. RC MEDLINE=7126232; PubMed=891156; RA Shridhar R., Shridhar V., Rivard S., Siegfried J.M., Piatraszkiwicz H., Essley J., Pauley R., Grignon D., Saks W., Miller O.J., Smith D.I.; RT "Mutations in the arginine-rich protein gene, in lung, breast, and prostate cancers, and in squamous cell carcinoma of the head and neck."; RL Cancer Res. 56:5576-5578 (1996).
[9]	Query 61 DTIEKEL1SFCFLDTPKGKBNRCLYTLGATKDAATKILSEYTRPMVHMPAMKICKLKLID 120	RN [10]	DE DISCUSSION OF PUTATIVE CANCER VARIANT. RC MEDLINE=91711783; PubMed=91714057; RA Shridhar V., Rivard S., Siegfried J.M., Piatraszkiwicz H., Essley J., Pauley R., Grignon D., Saks W., Miller O.J., Smith D.I.; RT "Mutations in the arginine-rich protein gene, in lung, breast, and prostate cancers, and in squamous cell carcinoma of the head and neck."; RL Cancer Res. 56:5576-5578 (1996).
[10]	Query 61 DTIEKEL1NFCSDAKGKBNRCLYTLGATKDAATKILSEYTRPMVHMPAMKICKLKLID 120	RN [11]	DE DISCUSSION OF PUTATIVE CANCER VARIANT. RC MEDLINE=7126232; PubMed=891156; RA Shridhar R., Shridhar V., Rivard S., Siegfried J.M., Piatraszkiwicz H., Essley J., Pauley R., Grignon D., Saks W., Miller O.J., Smith D.I.; RT "Mutations in the arginine-rich protein gene, in lung, breast, and prostate cancers, and in squamous cell carcinoma of the head and neck."; RL Cancer Res. 56:5576-5578 (1996).
[11]	Query 121 SQICELKYKETLIDLASVLDLWIKMVRVAKELQKILHSLWGEERCRACAETDYYNLQIQLAKYAA 180	RN [12]	DE DISCUSSION OF PUTATIVE CANCER VARIANT. RC MEDLINE=91711783; PubMed=91714057; RA Shridhar V., Rivard S., Siegfried J.M., Piatraszkiwicz H., Essley J., Pauley R., Grignon D., Saks W., Miller O.J., Smith D.I.; RT "Mutations in the arginine-rich protein gene, in lung, breast, and prostate cancers, and in squamous cell carcinoma of the head and neck."; RL Cancer Res. 56:5576-5578 (1996).
[12]	Query 121 SQICELKYKETLIDLASVLDLWIKMVRVAKELQKILHSLWGEERCRACAETDYYNLQIQLAKYAA 180	RN [13]	DE DISCUSSION OF PUTATIVE CANCER VARIANT. RC MEDLINE=91711783; PubMed=91714057; RA Shridhar V., Rivard S., Siegfried J.M., Piatraszkiwicz H., Essley J., Pauley R., Grignon D., Saks W., Miller O.J., Smith D.I.; RT "Mutations in the arginine-rich protein gene, in lung, breast, and prostate cancers, and in squamous cell carcinoma of the head and neck."; RL Cancer Res. 56:5576-5578 (1996).
[13]	Query 181 THPKTEL 187	RN [14]	DE DISCUSSION OF PUTATIVE CANCER VARIANT. RC MEDLINE=91711783; PubMed=91714057; RA Shridhar V., Rivard S., Siegfried J.M., Piatraszkiwicz H., Essley J., Pauley R., Grignon D., Saks W., Miller O.J., Smith D.I.; RT "Mutations in the arginine-rich protein gene, in lung, breast, and prostate cancers, and in squamous cell carcinoma of the head and neck."; RL Cancer Res. 56:5576-5578 (1996).
[14]	Query 181 THPKTEL 187	RN [15]	DE DISCUSSION OF PUTATIVE CANCER VARIANT. RC MEDLINE=91711783; PubMed=91714057; RA Shridhar V., Rivard S., Siegfried J.M., Piatraszkiwicz H., Essley J., Pauley R., Grignon D., Saks W., Miller O.J., Smith D.I.; RT "Mutations in the arginine-rich protein gene, in lung, breast, and prostate cancers, and in squamous cell carcinoma of the head and neck."; RL Cancer Res. 56:5576-5578 (1996).
[15]	Result 2 ARMET HUMAN STANDARD; ID P55145; Q86U67; Q91IS4; AC P55145; Q86U67; Q91IS4; DT 01-OCT-1996 (Rel. 34, Created) 28-PBB-2003 (Rel. 41, Last sequence update) DT 10-MAY-2005 (Rel. 47, Last annotation update)	RN [16]	DE DISCUSSION OF PUTATIVE CANCER VARIANT. RC MEDLINE=91711783; PubMed=91714057; RA Shridhar V., Rivard S., Siegfried J.M., Piatraszkiwicz H., Essley J., Pauley R., Grignon D., Saks W., Miller O.J., Smith D.I.; RT "Mutations in the arginine-rich protein gene, in lung, breast, and prostate cancers, and in squamous cell carcinoma of the head and neck."; RL Cancer Res. 56:5576-5578 (1996).

OS	Xenopus laevis (African clawed frog).	24;	Last sequence update)
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;		
OC	Amphibia; Batrachia; Anura; Mesobatrachia; Pipoidea; Pipidae;		
OC	Xenopidae; Xenopus; Xenopus.		
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[1]			
RN	NUCLEOTIDE SEQUENCE.		
RC	TISSUE=Eye;		
RX	Medline=22341132; PubMed=12454917; DOI=10.1002/dvdy.10174;		
RA	Klein S.L., Straubberg R.L., Wagner L., Pontius J., Clifton S.W.,		
RA	Richardson P.;		
RT	"Genetic and genomic tools for Xenopus research: The NIH Xenopus		
RT	initiative.";		
RL	Dev. Dyn. 25:384-391(2002).		
RN	[2]		
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RX	Medline=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;		
RA	Straubberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,		
RA	Straubberg R.L., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,		
RA	Altschul S.F., Zeisberg B., Buetow K.H., Bhat N.K.,		
RA	Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,		
RA	Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,		
RA	Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,		
RA	Raha S.S., Loquellano N.A., Peters G.J., Carrinici P., Prange C.,		
RA	Beokar S.A., McEwan P.J., Abramson R.D., Mullahy S.J.,		
RA	Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,		
RA	Villalona D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,		
RA	Pahay J., Helton E., Kettman M., Madan A., Rodriguez S., Sanchez A.,		
RA	Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,		
RA	Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,		
RA	Butterfield A.C., Grimwood J., Schmutz J., Myers R.M.,		
RA	Krzewinski M.I., Skalska U., Jones S.J.M., Marra M.A.,		
RA	"Generation and initial analysis of more than 15,000 full-length human		
RA	and mouse cDNA sequences.";		
RA	Proc. Natl. Acad. Sci. U.S.A. 99:16889-16903(2002).		
RN	[3]		
RC	NUCLEOTIDE SEQUENCE.		
RA	Klein S., Gerhard D.S.; to the EMBL/GenBank/DDBJ databases.		
DR	Submitted (SRP-2004) to the EMBL/GenBank/DDBJ databases.		
DR	InterPro: IPR008139; SaposinB; EMBL; BCO8288; AAH8288.1; -; mRNA.		
SQ	SEQUENCE 180 AA; 20198 MW; 3448P4A2818615D1 CRC64;		
Best Local Similarity 53.9%; Score 530; DB 2; Length 180;			
Matches 101; Conservative 33; Mismatches 42; Indels 8; Gaps 3;			
Query 6 PVAAPFCAGLIVSHPVNLTOQEBAGGRGADECEVCKEFLNRFYKSLIDRGVNFSLDTIHK 65			
Db 57 ELLKTCNDARGKCNRLCYIGATSDAATKINTEVSKPLSNH1PEKTCBKXKKDQICE 116			
Qy 126 LKVERTKLIDSLVDRKMRVYALKEILKQHNGEECRACAEKTDYVNLQELQAPKVA -AHPH 183			
Db 117 LKDKQIDLSTVDJKKLRYKELKLLDNGESCKGCAKSDFRKINELMPKXAPNANA 176			
Qy 184 KTEL 187			
Db 177 RTDL 180			
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AC			
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DT 01-OCT-2003 (TRIMBLrel. 25, Last annotation update)			
DE Arm protein (Fragment).			
GN			
Name=Armet;			
OS Xenopus laevis (African clawed frog).			
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
OC Amphibia; Batrachia; Anura; Mesobatrachia; Pipoidea; Pipidae;			
OC Xenopodinae; Xenopus; Xenopus.			
OX Xenopidae; Xenopus; Xenopus.			
RA Klausner R.D., Feingold E.A., Grouse L.H., Derge J.G.,			
RA Krausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,			
RA Altenschul S.F., Bhat N.K., Schaefer C.P., Bhat N.K.,			
RA Hopkins R.F., Zeeberg B., Buetow K.H., Schaefer C.P.,			
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RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,			
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RA RAha S.S., Longwell N.A., Peters G.J., Abramson R.D., Mullahy S.J.,			
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,			
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,			
RA Villalona D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,			
RA Pahay J., Helton E., Kettman M., Madan A., Rodriguez S., Sanchez A.,			
RA RAhing M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,			
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,			
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,			
RA Butterfield A.C., Krzywinski M.I., Skalska U., Jones S.J.M., Marra M.A.,			
RA Scheiner A., Schein J.B., Jones S.J.M., Marra M.A.,			
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,			
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,			
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,			
RA Butterfield A.C., Krzywinski M.I., Skalska U., Jones S.J.M., Marra M.A.,			
RA Scheiner A., Schein J.B., Jones S.J.M., Marra M.A.,			
RA "Generation and initial analysis of more than 15,000 full-length human			
RA and mouse cDNA sequences.";			
RA Proc. Natl. Acad. Sci. U.S.A. 99:16889-16903(2002).			
RN [2]			
RC TISSUE=Embryo;			
RX MEDLINE=22341132; PubMed=12454917; DOI=10.1002/dvdy.10174;			
RA Klein S.L., Strausberg R.L., Wagner L., Pontius J., Clifton S.W.,			
RA Klein S.L., Strausberg R.L., Wagner L., Pontius J., Clifton S.W.,			
RA NUCLEOTIDE SEQUENCE.			
RC TISSUE=Embryo;			
RX MEDLINE=22341132; PubMed=12454917; DOI=10.1002/dvdy.10174;			
RA Klein S.L., Strausberg R.L., Wagner L., Pontius J., Clifton S.W.,			
RA Klein S., Strausberg R.;			
RA Submitted (JAN-2003) to the EMBL/GenBank/DDBJ databases.			
RL InterPro: IPR008139; SaposinB; EMBL; BCO8288; AAH8288.1; -; mRNA.			
FT NON-TER 1 1			
SQ SEQUENCE 201 AA; 22414 MW; 57404EB920E1518 CRC64;			
Query Match 53.9%; Score 530; DB 2; Length 201;			
Best Local Similarity 54.9%; Score 530; DB 2; Length 201;			
Matches 101; Conservative 33; Mismatches 42; Indels 8; Gaps 3;			
Query 6 PVAAPFCAGLIVSHPVNLTOQEBAGGRGADECEVCKEFLNRFYKSLIDRGVNFSLDTIHK 65			
Db 57 ELLKTCNDARGKCNRLCYIGATSDAATKINTEVSKPLSNH1PEKTCBKXKKDQICE 116			
Qy 126 LKVERTKLIDSLVDRKMRVYALKEILKQHNGEECRACAEKTDYVNLQELQAPKVA -AHPH 183			
Db 117 LKDKQIDLSTVDJKKLRYKELKLLDNGESCKGCAKSDFRKINELMPKXAPNANA 176			
Qy 184 KTEL 187			
Db 177 RTDL 180			
RESULT 5			
Q72YX7_XENLA PRELIMINARY;	PRT;	201 AA.	
ID Q72YX7;			
AC			
DT 01-JUN-2003 (TRIMBLrel. 24, Created)			
DT 01-OCT-2003 (TRIMBLrel. 25, Last annotation update)			
DE Arm protein (Fragment).			
GN			
Name=Armet;			
OS Xenopus laevis (African clawed frog).			
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
OC Amphibia; Batrachia; Anura; Mesobatrachia; Pipoidea; Pipidae;			
OC Xenopodinae; Xenopus; Xenopus.			
RA Klausner R.D., Feingold E.A., Grouse L.H., Derge J.G.,			
RA Krausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,			
RA Altenschul S.F., Bhat N.K., Schaefer C.P., Bhat N.K.,			
RA Hopkins R.F., Zeeberg B., Buetow K.H., Schaefer C.P.,			
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,			
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,			
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,			
RA Raha S.S., Loquellano N.A., Peters G.J., Carrinici P., Prange C.,			
RA RAha S.S., Longwell N.A., Peters G.J., Abramson R.D., Mullahy S.J.,			
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,			
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,			
RA Villalona D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,			
RA Pahay J., Helton E., Kettman M., Madan A., Rodriguez S., Sanchez A.,			
RA RAhing M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,			
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,			
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,			
RA Butterfield A.C., Krzywinski M.I., Skalska U., Jones S.J.M., Marra M.A.,			
RA Scheiner A., Schein J.B., Jones S.J.M., Marra M.A.,			
RA "Generation and initial analysis of more than 15,000 full-length human			
RA and mouse cDNA sequences.";			
RA Proc. Natl. Acad. Sci. U.S.A. 99:16889-16903(2002).			
RN [3]			
RC TISSUE=Embryo;			
RX MEDLINE=22341132; PubMed=12454917; DOI=10.1002/dvdy.10174;			
RA Klein S.L., Strausberg R.L., Wagner L., Pontius J., Clifton S.W.,			
RA Klein S.L., Strausberg R.L., Wagner L., Pontius J., Clifton S.W.,			
RA NUCLEOTIDE SEQUENCE.			
RC TISSUE=Embryo;			
RX MEDLINE=22341132; PubMed=12454917; DOI=10.1002/dvdy.10174;			
RA Klein S.L., Strausberg R.L., Wagner L., Pontius J., Clifton S.W.,			
RA Klein S., Strausberg R.;			
RA Submitted (JAN-2003) to the EMBL/GenBank/DDBJ databases.			
RL InterPro: IPR008139; SaposinB; EMBL; BCO8288; AAH8288.1; -; mRNA.			
FT NON-TER 1 1			
SQ SEQUENCE 201 AA; 22414 MW; 57404EB920E1518 CRC64;			
Query Match 53.9%; Score 530; DB 2; Length 201;			
Best Local Similarity 54.9%; Score 530; DB 2; Length 201;			
Matches 101; Conservative 33; Mismatches 42; Indels 8; Gaps 3;			
Query 6 PVAAPFCAGLIVSHPVNLTOQEBAGGRGADECEVCKEFLNRFYKSLIDRGVNFSLDTIHK 65			
Db 57 ELLKTCNDARGKCNRLCYIGATSDAATKINTEVSKPLSNH1PEKTCBKXKKDQICE 116			
Qy 126 LKVERTKLIDSLVDRKMRVYALKEILKQHNGEECRACAEKTDYVNLQELQAPKVA -AHPH 183			
Db 117 LKDKQIDLSTVDJKKLRYKELKLLDNGESCKGCAKSDFRKINELMPKXAPNANA 176			
Qy 184 KTEL 187			
Db 177 RTDL 180			
RESULT 5			
Q72YX7_XENLA PRELIMINARY;	PRT;	201 AA.	
ID Q72YX7;			
AC			
DT 01-JUN-2003 (TRIMBLrel. 24, Created)			
DT 01-OCT-2003 (TRIMBLrel. 25, Last annotation update)			
DE Arm protein (Fragment).			
GN			
Name=Armet;			
OS Xenopus laevis (African clawed frog).			
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
OC Amphibia; Batrachia; Anura; Mesobatrachia; Pipoidea; Pipidae;			
OC Xenopodinae; Xenopus; Xenopus.			
RA Klausner R.D., Feingold E.A., Grouse L.H., Derge J.G.,			
RA Krausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,			
RA Altenschul S.F., Bhat N.K., Schaefer C.P., Bhat N.K.,			
RA Hopkins R.F., Zeeberg B., Buetow K.H., Schaefer C.P.,			
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,			
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,			
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RC TISSUE=Embryo;			
RX MEDLINE=22341132; PubMed=12454917; DOI=10.1002/dvdy.10174;			
RA Klein S.L., Strausberg R.L., Wagner L., Pontius J., Clifton S.W.,			
RA Klein S.L., Strausberg R.L., Wagner L., Pontius J., Clifton S.W.,			
RA NUCLEOTIDE SEQUENCE.			
RC TISSUE=Embryo;			
RX MEDLINE=22341132; PubMed=12454917; DOI=10.1002/dvdy.10174;			
RA Klein S.L., Strausberg R.L., Wagner L., Pontius J., Clifton S.W.,			
RA Klein S., Strausberg R.;			
RA Submitted (JAN-2003) to the EMBL/GenBank/DDBJ databases.			
RL InterPro: IPR008139; SaposinB; EMBL; BCO8288; AAH8288.1; -; mRNA.			
FT NON-TER 1 1			
SQ SEQUENCE 201 AA; 22414 MW; 57404EB920E1518 CRC64;			
Query Match 53.9%; Score 530; DB 2; Length 201;			
Best Local Similarity 54.9%; Score 530; DB 2; Length 201;			
Matches 101; Conservative 33; Mismatches 42; Indels 8; Gaps 3;			
Query 6 PVAAPFCAGLIVSHPVNLTOQEBAGGRGADECEVCKEFLNRFYKSLIDRGVNFSLDTIHK 65			
Db 57 ELLKTCNDARGKCNRLCYIGATSDAATKINTEVSKPLSNH1PEKTCBKXKKDQICE 116			
Qy 126 LKVERTKLIDSLVDRKMRVYALKEILKQHNGEECRACAEKTDYVNLQELQAPKVA -AHPH 183			
Db 117 LKDKQIDLSTVDJKKLRYKELKLLDNGESCKGCAKSDFRKINELMPKXAPNANA 176			
Qy 184 KTEL 187			
Db 177 RTDL 180			
RESULT 5			
Q72YX7_XENLA PRELIMINARY;	PRT;	201 AA.	
ID Q72YX7;			
AC			
DT 01-JUN-2003 (TRIMBLrel. 24, Created)			
DT 01-OCT-2003 (TRIMBLrel. 25, Last annotation update)			
DE Arm protein (Fragment).			
GN			
Name=Armet;			
OS Xenopus laevis (African clawed frog).			
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
OC Amphibia; Batrachia; Anura; Mesobatrachia; Pipoidea; Pipidae;			
OC Xenopodinae; Xenopus; Xenopus.			
RA Klausner R.D., Feingold E.A., Grouse L.H., Derge J.G.,			
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RA Scheiner A., Schein J.B., Jones S.J.M., Marra M.A.,			
RA "Generation and initial analysis of more than 15,000 full-length human			
RA and mouse cDNA sequences.";			
RA Proc. Natl. Acad. Sci. U.S.A. 99:16889-16903(2002).			
RN [3]			

RESULT 6

Q80298_MOUSE PRELIMINARY;

ID Q80298;

AC Q80298;

DT 01-JUN-2003 (TREMBLref. 24, Created)

DT 01-JUN-2003 (TREMBLref. 24, Last sequence update)

DT 01-JUN-2003 (TREMBLref. 24, Last annotation update)

DE Armet protein.

GN Name=Armet;

OS Mus musculus (Mouse);

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognath;

OC Muridae; Murinae; Mus.

RN [1]

RN DE

DE Hypothetical protein (Fragment).

OS Xenopus laevis (African clawed frog).

OC Amphibia; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Xenopodinae; Xenopus; Xenopidae.

NCBI_TaxID=8355;

RN [1]

RN NUCLEOTIDE SEQUENCE.

RP TISSUE=Whole;

RP TISSUE=Testis;

RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;

RX Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,

RA Klausner R.D., Collins F.S., Wagner L., Schuler G.D.,

RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F.,

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RA Fahey J., Hellion E., Kettman M., Madan A., Rodriguez S., Sanchez A.,

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RA Villalon D.K., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

RA Bosak S.A., Loquellano N.A., Abramson R.D.,

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DE ENSANGP00000018242 (Fragment).
 GN ORFname=ENSGANGP00000018242;
 OS Anopheles gambiae str. PEST;
 OC Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
 NCoptera; Endopterygota; Diptera; Nematocera; Culicidae;
 Anopheline; Anophales.
 OX NCBI_TAXID=180454;
 RN [1]
 RP NUCLEOTIDE SEQUENCE.
 RC STRAIN=EST;
 RG The Anopheles gambiae Sequence Committee;
 RR "Anopheles gambiae re-annotation";
 RL Submitted (APR-2004) to the EMBL/GenBank/DDJB databases.
 [2]
 RN [1]
 RP NUCLEOTIDE SEQUENCE.
 RC STRAIN=EST;
 RG The Anopheles gambiae Sequence Committee;
 RR Submitted (APR-2004) to the EMBL/GenBank/DDJB databases.
 CC -!- The sequence shown here is derived from an
 EMBL/GenBank/DDJB whole genome shotgun (WGS) entry which is
 preliminary data.
 DR EMBL: AAB01008859; EAA07858.2; -; Genomic_DNA.
 DR NON_TER 1 1
 SQ SEQUENCE 172 AA: 19874 MW: 05B1E3519191BB28 CRC64;
 Query Match 40.6% Score 399.5: DB 2: Length 172;
 Best Local Similarity 46.4%, Pred. No. 2.3e-25;
 Matches 85; Conservative 30; Mismatches 41; Indels 5;
 QY 7 VAVVAPCAGLIVSHPVLTQGQEARGRPAGDCEVCKEKFNLRFYKSLIDRGVNFSLDT-IE 64
 DB 9 VCLJLF--LPHSTALRGG-----DCEVCKVTNTTEMTLSD---ETKCDTKIE 53
 QY 65 KELISFCPLDTKGKDAATKILSEVTRPMSVHNPAMKICERKLLKLDSDIC 124
 DB 54 DEFRAFCKSKSKNIEQRFCYLGVEDSATGILGELSKPSWSWPAEKICERKLLKDDAQIC 113
 QY 125 ELKYEKTLIDLASVDLRKRVRAELKQIILSWGEERACAEKTDYVNLICELAPKXAAATHPK 184
 DB 114 DLRYDKQIDNAVDLKKLVRDLKKLQIISDWDEECGCLKEKTDPIKRIBELKHKYV---K 169
 QY 185 TEL 187
 DB 170 TEL 172

RESULT 9

ID ARNET_DROME STANDARD; PRT; 173 AA.
 AC Q9x263; Q9VEN4;
 DT 16-OCT-2001 (Rel. 40, Created)
 DT 16-OCT-2001 (Rel. 40, Last sequence update)
 DT 10-MAY-2005 (Rel. 47, Last annotation update)
 ARNET_DROME protein precursor.
 GN Name=Arp-like; ORNames=CG7013;
 OS Drosophila melanogaster (Fruit fly).
 OC Buxarvora; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
 NC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
 OC Ephydriodea; Drosophilidae; Drosophila.
 OX NCBI_TAXID=7227;
 RN NUCLEOTIDE SEQUENCE.
 RC STRAIN=Oregon-R;
 RX MEDLINE=20062184; PubMed=10597048;
 RA Goo J.H.; Ann Y.; Park O.K.; Park W.J.;
 RT "Selection of Drosophila Genes encoding secreted and membrane
 proteins";
 RC Adams M.D.; Celniker S.E.; Holt R.A.; Evans C.A.; Gocayne J.D.;
 RL Mol. Cells 9:564-568 (1999).
 RN NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].
 RC STRAIN=Berkely;
 RX MEDLINE=2019606; PubMed=1073132; DOI=10.1126/science.287.5461.2185;
 RA

RA Anatantides P.G.; Scherer S.E.; Li P.W.; Hoskins R.A.; Galle R.F.;
 RA George R.A.; Lewis S.E.; Richards S.; Ashburner M.; Henderson S.N.;
 RA Sutton G.G.; Wortman J.R.; Yandell M.D.; Zhang Q.; Chen L.X.;
 RA Brandon R.C.; Rogers Y.-H.C.; Blazej R.G.; Champe M.; Miklos G.L.G.;
 RA Wan K.H.; Doyle C.; Baxter E.G.; Heit G.; Nelson C.R.; Miklos G.L.G.;
 RA Abril J.P.; Agbayani A.; An H.-J.; Andrews-Pfannkoch C.; Baldwin D.;
 RA Balliew R.M.; Basu A.; Baxendale J.; Bayraktaroglu L.; Beasley E.M.;
 RA Beeson K.Y.; Benos P.V.; Berman B.P.; Bhandari D.; Bolshakov S.;
 RA Botchkova D.; Botchan M.R.; Bouck J.; Broktein P.; Brottier P.;
 RA Borkovska D.; Busam D.A.; Cadieu E.; Center A.; Chandra I.;
 RA Cherry J.M.; Cawley S.; Dahlke C.; Davenport L.B.; Davies P.;
 RA de Pablos B.; Delcher A.; Deng Z.; Mays A.D.; Dew I.; Dist S.M.;
 RA Dodson K.; Douc L.E.; Downes M.; Dugan-Rocha S.; Dunkin P.;
 RA Durbin K.J.; Evangelista C.C.; Ferraz C.; Ferriera S.; Fleischmann W.;
 RA Fosler C.; Gabreliam A.E.; Garg N.S.; Gelbart W.M.; Glasser K.;
 RA Glodek A.; Gong F.; Gorrell J.H.; Butler C.; Gu Z.; Guan P.; Harris M.;
 RA Harris N.L.; Harvey D.A.; Heiman T.J.; Hernandez J.R.; Houck J.;
 RA Hostin D.; Houston K.A.; Howland T.J.; Wei M.H.; Ibergam C.;
 RA Jallali M.; Kalush F.; Karpen G.H.; Ke Z.; Kettman J.A.; Lai Z.;
 RA Kimmel B.E.; Kodira C.D.; Kraft C.; Kravitz S.; Kulp D.; Lai Z.;
 RA Lasko P.; Lei Y.; Levitsky A.A.; Li J.H.; Li Z.; Liang Y.; Lin X.;
 RA Liu X.; Mattei B.; McIntosh T.C.; McLeod M.P.; McPherson D.;
 RA Merkulov G.; Milshina N.V.; Mobarry C.; Morris J.; Moshrefi A.;
 RA Mount S.M.; Moy M.; Murphy B.; Murphy L.; Muzny D.M.; Nelson D.L.;
 RA Nelson D.R.; Nelson K.; Nixon D.; Nixon J.; Pollard J.; Puris V.;
 RA Palazzolo M.; Pittman G.S.; Pan S.; Pollard J.; Puris V.; Reese M.G.;
 RA Reinert K.; Remington K.; Saunders R.D.C.; Scheeler F.; Shen H.;
 RA Shue K.; Siden-Kiamos I.; Simpson M.P.; Skupski M.P.; Smith T.;
 RA Spier B.; Spradling A.C.; Stapleton M.; Strongy R.; Sun E.;
 RA Svartskas R.; Tector C.; Turner R.; Venter E.; Wang A.H.; Wang X.;
 RA Wang Z.-Y.; Wassarman D.A.; Weinstock G.M.; Weissenbach J.;
 RA Williams S.M.; Woodage T.; Worley K.C.; Wu D.; Yang S.; Yao Q.A.;
 RA Ye J.; Yeh R.-F.; Zaveri J.S.; Zhan M.; Zhang G.; Zhao Q.; Zheng L.;
 RA Zheng X.H.; Zhong W.; Zhou X.; Zhu S.; Zhu X.; Smith H.O.;
 RA Gibbs R.A.; Myers E.W.; Rubin G.M.; Venter J.C.; Shu S.Q.;
 RA Stepleton M.; Yanada C.; Ashburner M.; Rubin G.M.;
 RA Lewis S.E.;
 RT "The genome sequence of Drosophila melanogaster.";
 RN Science 287:2185-2195 (2000).
 RN [3]
 RP GENOME REANNOTATION.
 RX MEDLINE=2242669; PubMed=12537572;
 RA Milara S.; Crosby M.A.; Mungall C.J.; Matthews B.B.; Campbell K.S.;
 RA Hradecky P.; Huang Y.; Kaminker J.S.; Millburn G.H.; Prochnik S.E.;
 RA Smith C.D.; Tupy J.L.; Whitfield B.J.; Bayraktaroglu L.; Berman B.P.;
 RA Betschart B.R.; Celniker S.E.; Turner R.; Venter E.; Weissenbach J.;
 RA Harris N.L.; Richter J.; Russo S.; Schroeder A.J.; Shu S.Q.;
 RA Stepleton M.; Yanada C.; Ashburner M.; Rubin G.M.;
 RA Lewis S.E.;
 RT "Annotation of the Drosophila melanogaster euchromatic genome: a
 systematic review";
 RL Genome Biol. 3:RESEARCH0083.1-RESEARCH0083.22 (2002).
 RN [4]
 RN NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA].
 RC STRAIN=Berkeley; TISSUE=Embryo;
 RX MEDLINE=22426066; PubMed=12537659;
 RA Stapleton M.; Carlson J.W.; Brokstein P.; Yu C.; Champe M.;
 RA George R.A.; Carlson H.; Kronmiller B.; Pacieb J.M.; Park S.; Wan K.H.;
 RA Rubin G.M.; Celniker S.E.;
 RA "A Drosophila full-length cDNA resource.";
 RT Genome Biol. 3:RESEARCH0080.1-RESEARCH0080.8 (2002).
 CC -!- INTERACTION:
 CC Q8P390:endoA; NbExp=1; IntAct=EBI-135963; EBI-150782;
 CC -!- SUBCELLULAR LOCATION: Secreted (Potential).
 CC -!- SIMILARITY: Belongs to the ARNET family.
 CC ---
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 CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
 CC the European Bioinformatics Institute. There are no restrictions on its
 CC use as long as its content is in no way modified and this statement is not
 CC removed.
 CC ---
 CC DR AF132912; AAD32615.1; -; mRNA.
 CC DR AB003713; AAF55503.1; -; Genomic_DNA.
 CC DR AY061080; AAL28628.1; -; mRNA.

DR	IntAct; Q9XZ63; -	Drosophila melanogaster.	Qy	16	LLVSHPVLTQGQEAQGRGPAGCEVCKEFLNRFYKSLIDRGYNFSLDTIEKELISFCLDTK 75
DR	Ensembl; CG7013; FlyBase; FBgn0027095; ARMet-like.		Db	6	LLISLTVVVASAA --- -POCEVKVLLDD -VMKVPAGVSKPDAIGVIRECETTRBTTR 59
KW	Signal.	22 Potential.			
FT	CHAIN 1 23	ARMET-like protein.	Qy	76	GKENRLCYYLGATKDAATKILSETRPMSVHMPAMKIC-EKLKLUQDSQICELKYKETKLDL 134
FT	CONFLICT 74 74	Missing (in Ref. 1).	Db	60	NKENKFCFYIGALPESATINNEVTPKPLSMSPTERVKCLELKQDAQICELKYKPLDW 119
FT	SEQUENCE 173 AA; 20136 MW; E734A191F15D2 CRC64;		Qy	135	ASVDIPKMPYRAELKQIHLHSNGECRACAEKTDYVNLIQELAPKXATHPTEL 187
FT	Matches 80; Conservative 28; Mismatches 55; Indels 10; Gaps 2;		Db	120	KTIDLKCMRVTKEKLNTLGENGEVKCCTERAKLKRIEELKPKYV---KDEL 168
Qy	7 VAVVAFAGGLYSPVLTQGOBAGGRGPAGCEVCKEFLNRFYKSLIDRGYNFSLDTIEKE 66	RESULT 11			
Db	7 VVVGFLATLQLTQLAKE-----EDCEVCVTKVTPRFPDSL-DSTSKKDYQIETA 56	061B22_CABBR PRELIMINARY; ID Q61B22_CABBR PRELIMINARY;	PRT;	169	AA.
Qy	67 LISFCFLDTKGKENRLCYYLGATKDAATKILSETRPMSVHMPAMKIC-EKLKLUQDSQICEL 126	AC Q61B22;			
Db	57 FKKFCFKAQKQNEKHFPCYIGGLEBESATGUNELSKPSWMSPAEKICERLKQDAQICDL 116	DT 25-OCT-2004 (TREMBLrel. 28, Created)			
Qy	127 KVEKTULDASVDLRKNRVAELKQIHLHSNGECRACAEKTDYVNLIQELAPKXA 179	DT 25-OCT-2004 (TREMBLrel. 28, Last sequence update)			
Db	117 RYEKQIDLNSVDLKKEKLRDKLILNDWDESCDGCLKEKGDPKIRTEELKPKYS 169	DT 25-OCT-2004 (TREMBLrel. 28, Last annotation update)			
Qy	118 VAVVAFAGGLYSPVLTQGOBAGGRGPAGCEVCKEFLNRFYKSLIDRGYNFSLDTIEKE 66	DE Hypothetical protein CBG13529.			
Db	119 VAVVAFAGGLYSPVLTQGOBAGGRGPAGCEVCKEFLNRFYKSLIDRGYNFSLDTIEKE 66	GN Name=CBG13529;			
Qy	120 VAVVAFAGGLYSPVLTQGOBAGGRGPAGCEVCKEFLNRFYKSLIDRGYNFSLDTIEKE 66	OS Caenorhabditis briggsae.			
Db	121 VAVVAFAGGLYSPVLTQGOBAGGRGPAGCEVCKEFLNRFYKSLIDRGYNFSLDTIEKE 66	OC Eukaryota; Metazoa; Nematoidea; Chromadorea; Rhabditida; Rhabditoidae; Peloderaida; Caenorhabditis.			
Qy	122 VAVVAFAGGLYSPVLTQGOBAGGRGPAGCEVCKEFLNRFYKSLIDRGYNFSLDTIEKE 66	OC NCBITaxonID=6238;			
Db	123 VAVVAFAGGLYSPVLTQGOBAGGRGPAGCEVCKEFLNRFYKSLIDRGYNFSLDTIEKE 66	OX RN [1]			
Qy	124 VAVVAFAGGLYSPVLTQGOBAGGRGPAGCEVCKEFLNRFYKSLIDRGYNFSLDTIEKE 66	RP NUCLEOTIDE SEQUENCE.			
Db	125 VAVVAFAGGLYSPVLTQGOBAGGRGPAGCEVCKEFLNRFYKSLIDRGYNFSLDTIEKE 66	RG The C. briggsae Sequencing Consortium;			
Qy	126 VAVVAFAGGLYSPVLTQGOBAGGRGPAGCEVCKEFLNRFYKSLIDRGYNFSLDTIEKE 66	RL Submitted (SEP-2003) to the EMBL/GenBank/DBJ databases.			
Db	127 VAVVAFAGGLYSPVLTQGOBAGGRGPAGCEVCKEFLNRFYKSLIDRGYNFSLDTIEKE 66	CC -!- CAUTION: The sequence shown here is derived from an EMBL/GenBank/DBJ whole genome shotgun (WGS) entry which is			
Qy	128 VAVVAFAGGLYSPVLTQGOBAGGRGPAGCEVCKEFLNRFYKSLIDRGYNFSLDTIEKE 66	CC preliminary data.			
Db	129 VAVVAFAGGLYSPVLTQGOBAGGRGPAGCEVCKEFLNRFYKSLIDRGYNFSLDTIEKE 66	DR EMBL; CAAC01000064; CABE67929.1; -; Genomic_DNA.			
Qy	130 VAVVAFAGGLYSPVLTQGOBAGGRGPAGCEVCKEFLNRFYKSLIDRGYNFSLDTIEKE 66	DR InterPro; IPR000088; ER target_S.			
Db	131 VAVVAFAGGLYSPVLTQGOBAGGRGPAGCEVCKEFLNRFYKSLIDRGYNFSLDTIEKE 66	DR PROSITE; PS000114; ER target; UNKNOWN_1.			
Qy	132 VAVVAFAGGLYSPVLTQGOBAGGRGPAGCEVCKEFLNRFYKSLIDRGYNFSLDTIEKE 66	KW Hypothetical protein.			
Db	133 VAVVAFAGGLYSPVLTQGOBAGGRGPAGCEVCKEFLNRFYKSLIDRGYNFSLDTIEKE 66	SQ SEQUENCE 169 AA; 19180 MW; 4B370E34FCA4FB45 CRC64;			
Qy	134 VAVVAFAGGLYSPVLTQGOBAGGRGPAGCEVCKEFLNRFYKSLIDRGYNFSLDTIEKE 66	Query Match 36.2%; Score 356; DB 2; Length 169;			
Db	135 VAVVAFAGGLYSPVLTQGOBAGGRGPAGCEVCKEFLNRFYKSLIDRGYNFSLDTIEKE 66	Best Local Similarity 46.1%; Pred. No. 9.8e-22; Matches 70; Conservative 29; Mismatches 47; Indels 6; Gaps 3;			
Qy	136 VAVVAFAGGLYSPVLTQGOBAGGRGPAGCEVCKEFLNRFYKSLIDRGYNFSLDTIEKE 66	CC 37 CEVCKEFLNRFYKSLIDRGYNFSLDTIEKELISFCLDKRGENRICYLYGATKDAATKIL 96			
Db	137 VAVVAFAGGLYSPVLTQGOBAGGRGPAGCEVCKEFLNRFYKSLIDRGYNFSLDTIEKE 66	DR 23 CEVCKEFLNRFYKSLIDRGYNFSLDTIEKELISFCLDKRGENRICYLYGATKDAATKIL 96			
Qy	138 VAVVAFAGGLYSPVLTQGOBAGGRGPAGCEVCKEFLNRFYKSLIDRGYNFSLDTIEKE 66	CC 97 SEVTRPMSVHMPAMKIC-EKLKLUQDSQICELKYKETKLDASVDLRKMRVYAEKLQIHLHSNG 155			
Db	139 VAVVAFAGGLYSPVLTQGOBAGGRGPAGCEVCKEFLNRFYKSLIDRGYNFSLDTIEKE 66	DR 82 NEVTRPLSMSPTDKVCDKLKSQDAQICELKYKETKLDASVDLRKMRVYAEKLQIHLHSNG 141			
Qy	140 VAVVAFAGGLYSPVLTQGOBAGGRGPAGCEVCKEFLNRFYKSLIDRGYNFSLDTIEKE 66	CC 156 BECRACAEKTDYVNLIQELAPKXATHPTEL 187			
Db	141 VAVVAFAGGLYSPVLTQGOBAGGRGPAGCEVCKEFLNRFYKSLIDRGYNFSLDTIEKE 66	DR 142 EACKGCTESEFIRKIEELKPKYV---KDEL 169			
Qy	142 VAVVAFAGGLYSPVLTQGOBAGGRGPAGCEVCKEFLNRFYKSLIDRGYNFSLDTIEKE 66	RESULT 12			
Db	143 VAVVAFAGGLYSPVLTQGOBAGGRGPAGCEVCKEFLNRFYKSLIDRGYNFSLDTIEKE 66	Q6B882_9ACAR PRELIMINARY; ID Q6B882_9ACAR PRELIMINARY;	PRT;	147	AA.
Qy	144 VAVVAFAGGLYSPVLTQGOBAGGRGPAGCEVCKEFLNRFYKSLIDRGYNFSLDTIEKE 66	AC Q6B882;			
Db	145 VAVVAFAGGLYSPVLTQGOBAGGRGPAGCEVCKEFLNRFYKSLIDRGYNFSLDTIEKE 66	DT 25-OCT-2004 (TREMBLrel. 28, Created)			
Qy	146 VAVVAFAGGLYSPVLTQGOBAGGRGPAGCEVCKEFLNRFYKSLIDRGYNFSLDTIEKE 66	DT 25-OCT-2004 (TREMBLrel. 28, Last sequence update)			
Db	147 VAVVAFAGGLYSPVLTQGOBAGGRGPAGCEVCKEFLNRFYKSLIDRGYNFSLDTIEKE 66	DT 25-OCT-2004 (TREMBLrel. 28, Last annotation update)			
Qy	148 VAVVAFAGGLYSPVLTQGOBAGGRGPAGCEVCKEFLNRFYKSLIDRGYNFSLDTIEKE 66	DE ARMET-like protein (Fragment).			
Db	149 VAVVAFAGGLYSPVLTQGOBAGGRGPAGCEVCKEFLNRFYKSLIDRGYNFSLDTIEKE 66	OS Eukaryota; Metazoa; Arthropoda; Chelicera; Arachnida; Acari; OC Parasitiformes; Ixodida; Ixodidae; Ixodidae; Ixodes; OC NCBITaxonID=29930;			
Qy	150 VAVVAFAGGLYSPVLTQGOBAGGRGPAGCEVCKEFLNRFYKSLIDRGYNFSLDTIEKE 66	RN [1]			
Db	151 VAVVAFAGGLYSPVLTQGOBAGGRGPAGCEVCKEFLNRFYKSLIDRGYNFSLDTIEKE 66	RP NUCLEOTIDE SEQUENCE.			
Qy	152 VAVVAFAGGLYSPVLTQGOBAGGRGPAGCEVCKEFLNRFYKSLIDRGYNFSLDTIEKE 66	RC TISSUE=Salivary gland;			
Db	153 VAVVAFAGGLYSPVLTQGOBAGGRGPAGCEVCKEFLNRFYKSLIDRGYNFSLDTIEKE 66	RA Ribeiro J.M.C.;			
Qy	154 VAVVAFAGGLYSPVLTQGOBAGGRGPAGCEVCKEFLNRFYKSLIDRGYNFSLDTIEKE 66	RT "An insight into the transcriptome of the salivary glands of the adult			

RF	female tick, <i>Ixodes pacificus</i> .";	Pred. No. 6e-20;
RN	Submitted (AUG-2004) to the EMBL/GenBank/DBJ databases.	53; Indels 2; Gaps 2;
[2]	NUCLEOTIDE SEQUENCE.	
RC	TISSUE-Salivary gland;	
RA	Francischetti I.M., Lane R.S., Pham V.M., Ribetiro J.M.C.;	
RJ	Submitted (JUL-2004) to the EMBL/GenBank/DBJ databases.	
RJ	EMBL: AV674265; AT92998.1; mRNA.	
DR	InterPro: IPR00816; ER-target; S.	
DR	PROSITE: PS00014; ER_TARGET; UNKNOWN_1.	
FT	NON_TER; 1.	
SQ	SEQUENCE 147 AA; 16750 MW; AD1E56A1596E9A6 CRC64;	
Query Match 35.0%; Score 344; DB 2; Length 147;		
Best Local Similarity 49.2%; Pred. No. 8.5e-21;		
Matches 62; Conservative 26; Mismatches 34; Indels 4; Gaps 1;		
Qy	62 TIEKELISFLCDKGKBNRLCYLGATDAATKILSEYTRPMSYHMPAMKICBKLLKIDS 121	RESULT 14
DB	26 SVEAGFLFLCCKTSKGPERFCYGGLESATKVNLTKEFWGMPALKVCKLVALDS 85	Q3DHKS5_SCHJA
Qy	122 QICSLKYKETLIDASVDRKMRVABKLQTLHSNOBECRACAETDYYLQELAPKWAAT 181	ID Q3DHKS5_SCHJA PRELIMINARY;
DB	86 QICDLKYKPVIDLKTVLKDXXLKLKVKDLKILSDMDERC7GCVKETDPVRIEEL---KTV 141	AC Q3DHKS5;
Qy	182 HPKTEL 187	DT 10-MAY-2005 (TREMBLrel. 30, Created)
DB	142 HMRBBL 147	DT 10-MAY-2005 (TREMBLrel. 30, Last sequence update)
RESULT 13		DT 10-MAY-2005 (TREMBLrel. 30, Last annotation update)
Q4TOD1_TETNG PRELIMINARY;	PRT; 152 AA.	DE Hypothetical protein.
AC	Q4TOD1;	OS Schistosoma japonicum (Blood fluke).
DT	13-SEP-2005 (TREMBLrel. 31, Created)	RA Eukaryota; Metazoa; Platyhelminthes; Trematoda; Digenea; Strigeida;
DT	13-SEP-2005 (TREMBLrel. 31, Last sequence update)	OC Schistosomatidae; Schistosomatidae; Schistosoma.
DT	13-SEP-2005 (TREMBLrel. 31, Last annotation update)	NCBI_TAXID=6182;
DE	Chromosome undetermined SCAP11227, whole genome shotgun sequence.	RN [1]
GN	ORFnames=GSTENG0009400001	RA Nucleotide sequence.
OS	Tetraodon nigroviridis (Green puffer).	RA Submitted (NOV-2004) to the EMBL/GenBank/DBJ databases.
•	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;	DR EMBL; AV812969; AAW24701.1; - mRNA.
•	Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;	KW Hypothetical protein.
•	Acanthomorphi; Acanthopterygii; Percomorphi; Tetraodontiformes;	SQ SEQUENCE 184 AA; 21068 MW; 2C3386048DE47D8C CRC64;
OC	Tetraodontidae; Tetraodontidae; Tetraodon.	Query Match 32.0%; Score 314.5; DB 2; Length 184;
OC	NCBI_TAXID=93883;	Best Local Similarity 40.3%; Pred. No. 3.1e-18;
OC	NUCLEOTIDE SEQUENCE.	Matches 58; Conservative 32; Mismatches 53; Indels 1; Gaps 1;
RA	Jauhion O., Aury J.M., Brunet F., Petit J.L., Strange-Thomann N.,	Qy 35 ADCEVCKEFLNRPFYKSLIDRGYNFSLDTKEKELISFLCDTGKERNLICYLGATKDAAT
RA	Maucler B., Bounneau L., Fischer C., Osoouf-Costaz C., Bernot A.,	DB 28 SNCVCIKEMGSFQLSLEPSDVO-SSDNKQAFMKKCESSVGNDFCYVGKIKTSAAN 86
RA	Nicaud S., Jaffe D., Fisher S., Boulfa G., Dossat C., Segurens B.,	Qy 95 ILSEVTRPMSVHMPAMKICBKLLKIDSQICELKEYKTLDLASVYDRLKMRVAAELKQILHWS 154
RA	Anthouard V., Jubin C., Castelli V., Karlina M., Vacherie B.,	DB 87 TYNRLVDP1KWNPKVEVKQCKLIFELDSQICDLYKEKLIDFKEFESKVKDILKIKMHW 146
RA	Bienont C., Skalli Z., Cattolico L., Poulin J., De Berardinis V.,	Qy 155 GEEBRAEAKTDVNLQELAPKV 178
RA	Crubaud C., Duprat S., Brotte P., Coutanceau J.P., Gouzy J.,	DB 147 GLERGCTEKKDPISLIKSNMHCH 170
RA	Parra G., Lardier G., Chappie C., McKernan K.J., McEwan P., Bosak S.,	RESULT 15
RA	Kellis M., Roh J.N., Guigo R., Zody M.C., Mescirov J.,	Q4SEBM9_TBNG
RA	Lindblad-Toh K., Birren B., Nusbaum C., Kahn D., Robinson-Rechavi M.,	ID Q4SEBM9_TBNG PRELIMINARY;
RA	Laudet V., Schachter V., Queisser F., Saurin W., Scarpelli C.,	AC Q4SEBM9;
RA	Wincker P., Lander E.S., Weissenbach J., Roest Crollius H.,	DT 13-SEP-2005 (TREMBLrel. 31, Created)
RT	"Genome duplication in the teleost fish Tetraodon nigroviridis reveals the early vertebrate proto-karyotype."	DT 13-SEP-2005 (TREMBLrel. 31, Last sequence update)
RL	Nature 431:946-957(2004).	DT 13-SEP-2005 (TREMBLrel. 31, Last annotation update)
RN	NUCLEOTIDE SEQUENCE.	DE Chromosome undetermined SCAP14615, whole genome shotgun sequence.
RG	Genoscope; Whitehead Institute Centre for Genome Research;	GN ORNames=GSTENG00147001;
RL	Submitted (FEB-2004) to the EMBL/GenBank/DBJ databases.	OS Tetraodon nigroviridis (Green puffer).
-I	Ce - The sequence shown here is derived from an EMBL/GenBank/DBJ whole genome shotgun (WGS) entry which is preliminary data.	OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Actinopterygii; Neopterygii; Teleostei; Neoteleostei;
CC	DR EMBL:CAAE01011227; CAF93651.1; -; Genomic DNA	OC Acanthomorphi; Acanthopterygii; Percomorphi; Tetraodontiformes;
SQ	SEQUENCE 152 AA; 17000 MW; CD62AA304833FB15 CRC64;	RA Jallion O., Aury J.M., Brunet F., Petit J.L., Strange-Thomann N.,
Query Match 34.0%; Score 334; DB 2; Length 152;	RA Mauceli E., Bouneau L., Fischer C., Ozouf-Costaz C., Bernot A.,	

RA Nicaud S., Jaffe D., Fisher S., Lutfalla G., Dossat C., Segurens B.,
 RA Dasilva C., Salanoubat M., Levy M., Boudet N., Castellano S.,
 RA Anthouard V., Jubin C., Castelli V., Karolka M., Vacherie B.,
 RA Biemont C., Skalli Z., Catrice L., Poulain J., De Bernardin V.,
 RA Biemont C., Duprat C., Coutanceau J.P., Gouzy J., De Bernardin V.,
 RA Parra G., Lardier G., Brottier P., Chapelle C., McKernan K.J., McEwan P., Bosak S.,
 RA Kellis M., Wolff J.N., Guigo R., Zody M.C., Mesirov J.,
 RA Lindblad-Toh K., Birren B., Nusbaum C., Kahn D., Robinson-Rechavi M.,
 RA Laudet V., Schachter V., Quétier F., Saurin W., Scarpelli C.,
 RA Wincker P., Lander E.S., Weissenbach J., Roest-Crollius H.,
 RT "Genome duplication in the teleost fish Tetraodon nigroviridis reveals
 RT the early vertebrate proto-karyotype.";
 RR Nature 431:946-957(2004).
 RN [2]
 RP
 RP NUCLEOTIDE SEQUENCE.
 RG Genoscope; Whitehead Institute Centre for Genome Research;
 RL Submitted (FEB-2004) to the EMBL/GenBank/DDBJ databases.
 CC -!- CAUTION: The sequence shown here is derived from an
 CC EMBL/GenBank/DDBJ whole genome shotgun (WGS) entry which is
 CC preliminary data.
 DR EMBL; CAA50101615; CAG00903.1; -; Genomic DNA.
 SQ SEQUENCE 1558 AA; 179215 MW; 2B3AF13FC9DBB39D CRC64;
 QRY Match 9.7%; Score 95.5%; DB 2; Length 1558;
 Best Local Similarity 25.1%; Pred. No. 59;
 Matches 42; Conservative 32; Mismatches 60; Indels 33; Gaps 7;
 QRY 17 LVSHPVLTQGQEAGGRPGADECVKEFLNRFYKSLIDRGYNFSLDTIEKLISFLDTKG 76
 Db 1097 LVS---LTEREKIQNRLVSPCBE-KEALQSSLSS---NGEKEELQSQLVSLCEEKKA 1147
 QRY 77 KENRLCYLGATKDAATKILSEBVTRPMVSHMPAMKICEKURKLDSSICEKRYEK---TLD 133
 Db 1148 LQNRTY-----LSGDREKRNHL---MFVGEQKKLKQQLSSSEEKEBLQD 1193
 QRY 134 LASVDLIRKMRVVAELKQILHSGW-----EFCRACAEKTDYVNLQE 173
 Db 1194 LETLROBKQQLUSAPRELPSRGQRBAELQALQAERSRCSLLQE 1240

Search completed: December 13, 2005, 03:09:55
 Job time : 233 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: December 13, 2005, 03:02:52 ; Search time 165 Seconds
(without alignments)
470.687 Million cell updates/sec

Title: US-10-648-361-2

Perfect score: 983

Sequence: 1 MWKASPVAFFCAGLLVSH.....VNLQELAPKYAATHPKTEL 187

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing First 45 summaries

Database : Published Applications AA Main:*

1: /cgn2_6/ptodata/1/pubaa/US07_PUBCOMB.pep:*

2: /cgn2_6/ptodata/1/pubaa/US08_PUBCOMB.pep:*

3: /cgn2_6/ptodata/1/pubaa/US09_PUBCOMB.pep:*

4: /cgn2_6/ptodata/1/pubaa/US10_PUBCOMB.pep:*

5: /cgn2_6/ptodata/1/pubaa/US10B_PUBCOMB.pep:*

6: /cgn2_6/ptodata/1/pubaa/US11_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match	Length	DB ID	Description
1	968	98.5	187	4	US-10-302-172-949	Sequence 949, App
2	546	55.5	179	4	US-10-102-265-14	Sequence 14, Appli
3	537	54.6	179	4	US-10-102-265-5	Sequence 5, Appli
4	535	54.4	179	4	US-10-102-265-2	Sequence 2, Appli
5	535	54.4	234	4	US-10-102-265-1	Sequence 1, Appli
6	534.5	54.4	233	4	US-10-102-265-18	Sequence 18, Appli
7	532.5	54.2	158	4	US-10-102-265-6	Sequence 6, Appli
8	532.5	54.2	159	4	US-10-102-265-7	Sequence 7, Appli
9	532.5	54.2	198	3	US-09-815-153-5	Sequence 5, Appli
10	532.5	54.2	198	4	US-10-428-487-22	Sequence 22, Appli
11	532	54.1	234	4	US-10-102-487-1	Sequence 1, Appli
12	532	54.1	234	4	US-10-102-172-950	Sequence 950, App
13	532	54.1	235	3	US-09-815-153-6	Sequence 6, Appli
14	532	54.1	235	4	US-10-428-487-84	Sequence 84, Appli
15	530.5	54.0	196	3	US-09-815-153-7	Sequence 7, Appli
16	529.5	53.9	158	4	US-10-102-265-3	Sequence 3, Appli
17	529.5	53.9	159	4	US-10-102-265-4	Sequence 4, Appli
18	529	53.8	187	3	US-09-815-153-3	Sequence 3, Appli
19	529	53.8	187	4	US-10-428-487-3	Sequence 5, Appli
20	518	52.7	157	5	US-10-476-447-5	Sequence 15, Appli
21	518	52.7	179	4	US-10-102-265-15	Sequence 15, Appli
22	419	42.6	106	3	US-09-764-81-4527	Sequence 4527, Appli
23	393	40.0	173	6	US-11-697-143-4140	Sequence 41400, App
24	375.5	38.2	172	3	US-09-815-153-8	Sequence 8, Appli
25	375.5	38.2	172	4	US-10-428-487-19	Sequence 19, Appli
26	213	21.7	52	4	US-10-102-265-12	Sequence 12, Appli
27	186	18.9	52	4	US-10-102-265-13	Sequence 13, Appli

ALIGNMENTS

RESULT 1
US-10-302-172-949 ; Sequence 949, Application US/10302172 ; Publication No. US0040053250A1
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom ; DRIMANAC, Radivoje T. ; Xue, Aidong J.
; TITLE OF INVENTION: Protein-like Nucleic Acids ; Polypeptides
; FILE REFERENCE: 803_1CNP ; CURRENT APPLICATION NUMBER: US/10/302,172
; PRIORITY APPLICATION NUMBER: US/2002-11-21
; PRIORITY FILING DATE: 2002-11-21
; PRIORITY APPLICATION NUMBER: PCT US02/05095
; PRIORITY FILING DATE: 2002-08-20
; PRIORITY APPLICATION NUMBER: PCT US02/05095
; PRIORITY FILING DATE: 2001-03-05
; NUMBER OF SEQ ID NOS: 950
; SOFTWARE: pt_Fl_genes Version 2.0
; SEQ ID NO: 949
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-302-172-949

Query Match 98.5% ; Score 968; Pred. No. 2.1e-94; Best Local Similarity 98.2%; Matches 185; Conserv 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 MWCAASPVAVAFCAAGLILVSHPVLTQGQAAGPAGDCEVCKEFLARFYKSLLDGYNFSL 60
Db 1 MWCAASPVAVAFCAAGLILVSHPVLTQGQAAGPAGDCEVCKEFLARFYKSLLDGYNFSL 60

Qy 61 DTIEKELISFLDTKGKENRLCYLIGATKDAATKILSEVTRPMVHMPAMKICKEKLKLD 120
Db 61 DTIEKELISFLDTKGKENRLCYLIGATKDAATKILSEVTRPMVHMPAMKICKEKLKLD 120

Qy 121 SQICELKYEXTKLDLASVDSLIRKMRVAYELQQLHSGEECRACAEKTDYVNLQELAPKYYA 180
Db 121 SQICELKYEXTKLDLASVDSLIRKMRVAYELQQLHSGEECRACAEKTDYVNLQELAPKYYA 180

Qy 181 THPTKEL 187
Db 181 THPTKEL 187

RESULT 2
US/10-102-265-14

Sequence 14, Application US/10102265
 Publication No. US20020182198A1
 GENERAL INFORMATION:
 APPLICANT: Comissiong, John W.
 APPLICANT: Rabekas, Andrei A.
 TITLE OF INVENTION: Dopamineergic Neuronal Survival-Promoting
 TITLE OF INVENTION: Factors and Uses Thereof
 FILE REFERENCE: 50097/011002
 CURRENT APPLICATION NUMBER: US/10/102,265
 CURRENT FILING DATE: 2002-03-20
 PRIOR APPLICATION NUMBER: US 60/277,516
 PRIOR FILING DATE: 2001-03-20
 NUMBER OF SEQ ID NOS: 17
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO 14
 LENGTH: 179
 TYPE: PRT
 ORGANISM: Bos taurus
 US-10-102-265-14

Query Match 55.5%; Score 546; DB 4; Length 179;
 Best Local Similarity 56.6%; Pred. No. 1.5e-49;
 Matches 107; Conservative 28; Mismatches 42; Indels 12; Gaps 3;

Db 1 MWACASPVAVVAFCAGLLVSHPVLTQGQEAAGRPGADCEVCKEFLNRFKSLIDRGVNSSL 60
 Db 1 MWATHGLA-VALALSVLPASRALRQG-----DCEVCISYIGRFQDLKORDVTPSP 50

Qy 61 DTIEKELISFCLDTKGKENRLCYLGYATKDAATKILSEVTREPMVHMPAMKICKEKLKLD 120
 Db 51 ASIEKELIKCERARGKENRLCYIYGATEDAATKINEVSKPLSHHIPVEKICKEKLKLD 110

Qy 121 SQICELKYEKTLDIASYDLRKMRVAAELKQILHSGEECRACAKTDYNNLQELAPKYA- 179
 Db 111 SQICELKYDQDIDSTVDLKLRVKEKLKLDWGETCKGCAERSDYRKINELMPKTA 170

Qy 180 -ATHPKTEL 187
 Db 171 KAASSRTDL 179

RESULT 3
 US-10-102-265-5

Sequence 5, Application US/10102265
 Publication No. US20020182198A1
 GENERAL INFORMATION:
 APPLICANT: Comissiong, John W.
 APPLICANT: Rabekas, Andrei A.
 TITLE OF INVENTION: Dopamineergic Neuronal Survival-Promoting
 TITLE OF INVENTION: Factors and Uses Thereof
 FILE REFERENCE: 50097/011002
 CURRENT APPLICATION NUMBER: US/10/102,265
 CURRENT FILING DATE: 2002-03-20
 PRIOR APPLICATION NUMBER: US 60/277,516
 PRIOR FILING DATE: 2001-03-20
 NUMBER OF SEQ ID NOS: 17
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO 5
 LENGTH: 179
 TYPE: PRT
 ORGANISM: Mus musculus
 US-10-102-265-5

Query Match 54.6%; Score 537; DB 4; Length 179;
 Best Local Similarity 56.6%; Pred. No. 1.4e-4;
 Matches 107; Conservative 27; Mismatches 43; Indels 12; Gaps 4;

Db 1 MWACASPVAVVAFCAGLLVSHPVLTQGQEAAGRPGADCEVCKEFLNRFKSLIDRGVNSSL 60
 Db 1 MWATGLA-VALALSVLPDSRAL-----RPG-DCEVCISYIGRFQDLKORDVTPSP 50

Qy 61 DTIEKELISFCLDTKGKENRLCYLGYATKDAATKILSEVTREPMVHMPAMKICKEKLKLD 120

Qy 51 ATIEKELIKCERARGKENRLCYIYGATEDAATKINEVSKPLSHHIPVEKICKEKLKLD 110

Qy 121 SQICELKYEKTLDIASYDLRKMRVAAELKQILHSGEECRACAKTDYNNLQELAPKYA- 179
 Db 111 SQICELKYDQDIDSTVDLKLRVKEKLKLDWGETCKGCAERSDYRKINELMPKTA 170

Qy 180 -ATHPKTEL 187
 Db 171 KAASSAPTDL 179

RESULT 4
 US-10-102-265-2

Sequence 2, Application US/10102265
 Publication No. US20020182198A1
 GENERAL INFORMATION:
 APPLICANT: Comissiong, John W.
 APPLICANT: Rabekas, Andrei A.
 TITLE OF INVENTION: Dopamineergic Neuronal Survival-Promoting
 TITLE OF INVENTION: Factors and Uses Thereof
 FILE REFERENCE: 50097/011002
 CURRENT APPLICATION NUMBER: US/10/102,265
 CURRENT FILING DATE: 2002-03-20
 PRIOR APPLICATION NUMBER: US 60/277,516
 PRIOR FILING DATE: 2001-03-20
 NUMBER OF SEQ ID NOS: 17
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO 2

Query Match 54.4%; Score 535; DB 4; Length 179;
 Best Local Similarity 56.6%; Pred. No. 2.3e-48;
 Matches 107; Conservative 25; Mismatches 45; Indels 12; Gaps 4;

Db 1 MWACASPVAVVAFCAGLLVSHPVLTQGQEAAGRPGADCEVCKEFLNRFKSLIDRGVNSSL 60
 Db 1 MWATGLA-VALALSVLPDSRAL-----RPG-DCEVCISYIGRFQDLKORDVTPSP 50

Qy 61 DTIEKELISFCLDTKGKENRLCYLGYATKDAATKILSEVTREPMVHMPAMKICKEKLKLD 120

Qy 51 ATIEKELIKCERARGKENRLCYIYGATEDAATKINEVSKPLSHHIPVEKICKEKLKLD 110

Qy 121 SQICELKYEKTLDIASYDLRKMRVAAELKQILHSGEECRACAKTDYNNLQELAPKYA- 179
 Db 111 SQICELKYDQDIDSTVDLKLRVKEKLKLDWGETCKGCAERSDYRKINELMPKTA 170

Qy 180 -ATHPKTEL 187
 Db 171 KAASSAPTDL 179

RESULT 5
 US-10-102-265-1

Sequence 1, Application US/10102265
 Publication No. US20020182198A1
 GENERAL INFORMATION:
 APPLICANT: Comissiong, John W.
 APPLICANT: Rabekas, Andrei A.
 TITLE OF INVENTION: Dopamineergic Neuronal Survival-Promoting
 TITLE OF INVENTION: Factors and Uses Thereof
 FILE REFERENCE: 50097/011002
 CURRENT APPLICATION NUMBER: US/10/102,265
 CURRENT FILING DATE: 2002-03-20
 PRIOR APPLICATION NUMBER: US 60/277,516
 PRIOR FILING DATE: 2001-03-20
 NUMBER OF SEQ ID NOS: 17
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO 1

Query Match 54.6%; Score 537; DB 4; Length 179;
 Best Local Similarity 56.6%; Pred. No. 1.4e-4;
 Matches 107; Conservative 27; Mismatches 43; Indels 12; Gaps 4;

Db 1 MWACASPVAVVAFCAGLLVSHPVLTQGQEAAGRPGADCEVCKEFLNRFKSLIDRGVNSSL 60
 Db 1 MWATGLA-VALALSVLPDSRAL-----RPG-DCEVCISYIGRFQDLKORDVTPSP 50

Qy 61 DTIEKELISFCLDTKGKENRLCYLGYATKDAATKILSEVTREPMVHMPAMKICKEKLKLD 120

ORGANISM: Homo sapiens
US-10-102-265-1

Query Match 54.4%; Score 535; DB 4; Length 234;
Best Local Similarity 56.6%; Pred. No. 3.3e-18;
Matches 107; Conservative 25; Mismatches 45; Indels 12; Gaps 4;

RESULT 7
US-10-102-265-6
; Sequence 6, Application US/10102265
; Publication No. US20020182198A1
; GENERAL INFORMATION:
; APPLICANT: Commissiong, John W.
; APPLICANT: Rabekas, Andrei A.
; TITLE OF INVENTION: Dopaminergic Neuronal Survival-Promoting
; TITLE OF INVENTION: Factors and Uses Thereof
; FILE REFERENCE: 50097/011002
; CURRENT APPLICATION NUMBER: US/10/102,265
; CURRENT FILING DATE: 2002-03-20
; PRIORITY APPLICATION NUMBER: US 60/277,516
; PRIORITY FILING DATE: 2001-03-20
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-102-265-6

Query Match 54.2%; Score 532.5; DB 4; Length 158;
Best Local Similarity 63.3%; Pred. No. 3.5e-48;
Matches 100; Conservative 25; Mismatches 30; Indels 3; Gaps 2;

Qy 32 RPGADCEVCKEFLNRFYKSLLIDRGVNFSLTIEKELISFLDTKGKENRLCYYLGATKDA 91
Db 2 RPG-DEVCVCKEFLNRFYQSLLIDRGVNFSLTIEKELISFLDTKGKENRLCYYLGATKDA 60

Qy 92 ATKILSEVTRPMVHMPAMKICEKKLSDQICELKEVTKLDAVLDLSDVLRMVAELKQIL 151
Db 61 ATKINNEVSKPLAKHHPVKECEKKLSDQICELKEVTKLDAVLDLSDVLRMVAELKQIL 120

Qy 152 HSWGEEBRCRAEAKTDVNLQELAPKA - ATHPKTEL 187
Db 121 DDWGEMCKGCAEKSDYIRKINELMVKYAPKAASARTDL 158

RESULT 8
US-10-102-265-7
; Sequence 7, Application US/10102265
; Publication No. US20020182198A1
; GENERAL INFORMATION:
; APPLICANT: Commissiong, John W.
; APPLICANT: Rabekas, Andrei A.
; TITLE OF INVENTION: Dopaminergic Neuronal Survival-Promoting
; TITLE OF INVENTION: Factors and Uses Thereof
; FILE REFERENCE: 50097/011002
; CURRENT APPLICATION NUMBER: US/10/102,265
; CURRENT FILING DATE: 2002-03-20
; PRIORITY APPLICATION NUMBER: US 60/277,516
; PRIORITY FILING DATE: 2001-03-20
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 159
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: based on Mus musculus
US-10-102-265-7

Query Match 54.2%; Score 532.5; DB 4; Length 159;
Best Local Similarity 63.3%; Pred. No. 3.6e-48;
Matches 100; Conservative 25; Mismatches 30; Indels 3; Gaps 2;

Qy 32 RPGADCEVCKEFLNRFYKSLLIDRGVNFSLTIEKELISFLDTKGKENRLCYYLGATKDA 91

DB : 3 RGCDCYCTISVGRFQDLDKDRBTFSPATIEBELLFCREARGKERNLQYIGATDA 61 ; TYPE: PRT ; ORGANISM: Mus musculus ; US-10-428-487-22

1 Qy : 92 ATKILSETTRPMSVHMPAMKICBKKDQSICELKYETKTLDSLAVDRLKMRVAFELKQIL 151 ; Query Match 54.2%; Score 532.5; DB 4; Length 198; Best Local Similarity 53.8%; Pred. No. 4.8e-48; Matches 106; Conservative 29; Mismatches 37; Indels 25; Gaps 5; ;

DB : 62 ATKLINESSKPLAHHIIPKBICBKKDQSICELKYQDILSTVDLKLRLVKEKKIL 121 ;

Qy : 152 HSNGEECRACAETKTDVNLQIOLAPKVA--ATHPKTEL 187 ;

DB : 122 DDNGEMCIGCAEKSDDYRKINELMPKVAAPKAASARTDL 159 ;

RESULT 9 ;

US-09-815-153-5 ; Sequence 5, Application US/09815153

Patent No. US20020132978A1 ; GENERAL INFORMATION ;

APPLICANT: RASTELLI, LUCA K. ;

APPLICANT: GEBER, HANS-PETER

TITLE OF INVENTION: VEGF-MODULATED GENES AND METHODS EMPLOYING THEM

FILE REFERENCE: 10/716/34

CURRENT APPLICATION NUMBER: US/09/815, 153

PRIOR APPLICATION NUMBER: 60/191, 201

PRIOR FILING DATE: 2000-03-21

NUMBER OF SEQ ID NOS: 47

SOFTWARE: Patentin Ver. 2.1

SEQ ID NO 5

LENGTH: 198

TYPE: PRT

ORGANISM: Murine sp.

US-09-815-153-5 ;

Query Match 54.2%; Score 532.5; DB 3; Length 198; Best Local Similarity 53.8%; Pred. No. 4.8e-48; Matches 106; Conservative 29; Mismatches 37; Indels 25; Gaps 5; ;

1 Qy : 152 HSNGEECRACAETKTDVNLQIOLAPKVA--ATHPKTEL 187 ; Query Match 54.2%; Score 532.5; DB 4; Length 198; Best Local Similarity 53.8%; Pred. No. 4.8e-48; Matches 106; Conservative 29; Mismatches 37; Indels 25; Gaps 5; ;

DB : 3 GSFAHPAVETAEDEVYARAGSTLAVSLPDSRALRPG-DCEVCISYLGRYQDVEG 61 ;

1 Qy : 152 HSNGEECRACAETKTDVNLQIOLAPKVA--ATHPKTEL 187 ;

DB : 62 FRDVTFSATIEBELLFCREARGKERNLQYIGATDAATKLINESSKPLAHHIIPKBICBKKDQSICELKYQDILSTVDLKLRLVKEKKIL 121 ;

1 Qy : 113 CEKLKKDQSICELKYETKTLDSLAVDRLKMRVAFELKQILHSGECCRACAETKTDVNLQI 172 ;

DB : 122 CEKLKKDQSICELKYDQIDLSVTDLKLRLVKEKKILDDWGEMCIGCAEKSDDYRKIN 181 ;

RESULT 11 ;

US-10-428-487-1 ; Sequence 1, Application US/10428487

Publication No. US20040006780A1 ; GENERAL INFORMATION ;

APPLICANT: RASTELLI, LUCA K. ;

APPLICANT: GEBER, HANS-PETER

TITLE OF INVENTION: VEGF-MODULATED GENES AND METHODS EMPLOYING THEM

FILE REFERENCE: 09800080-0103

CURRENT APPLICATION NUMBER: US/10/428, 487

CURRENT FILING DATE: 2003-05-02

PRIOR APPLICATION NUMBER: 09/815, 153

PRIOR FILING DATE: 2001-03-21

PRIOR APPLICATION NUMBER: 60/191, 201

PRIOR FILING DATE: 2000-03-22

NUMBER OF SEQ ID NOS: 84

SOFTWARE: Patentin Ver. 2.1

SEQ ID NO 1

LENGTH: 234

TYPE: PRT

ORGANISM: Homo sapiens

US-10-428-487-1 ;

Query Match 54.1%; Score 532; DB 4; Length 234; Best Local Similarity 56.1%; Pred. No. 6.8e-48; Mismatches 26; Indels 12; Gaps 3; ;

1 Qy : 1 MWCRSPVAVVARFAGLVLSPHPVLTQGQBAAGRPGADECEVKERUNRPFYKSLIDRGUNFSL 60 ;

DB : 56 MWATGLAVRALVSPVSPRSAL-----REG-DCEVCISYLGRYQDILKDRDVTSP 105 ;

1 Qy : 61 DTREKELLSFCLDTQKGENRLCYTLGATKDAATKLINESSKPLAHHIIPKBICBKKD 120 ;

DB : 106 ATENELIKPCREARGKERNLQYIGATDAATKLINESSKPLAHHIIPKBICBKKD 165 ;

1 Qy : 121 SQICELKYETKTLDSLAVDRLKMRVAFELKQILHSGECCRACAETKTDVNLQIOLAPKVA- 179 ;

DB : 166 SQTEKLLKIDQIDLSVTDLKLRLVKEKKILDDWGEMCIGCAEKSDDYRKIN 225 ;

RESULT 12 ;

US-10-428-487-22 ; Sequence 22, Application US/10428487

Publication No. US20040006780A1 ; GENERAL INFORMATION ;

APPLICANT: RASTELLI, LUCA K. ;

APPLICANT: GEBER, HANS-PETER

TITLE OF INVENTION: VEGF-MODULATED GENES AND METHODS EMPLOYING THEM

FILE REFERENCE: 09800080-0103

CURRENT APPLICATION NUMBER: US/10/428, 487

CURRENT FILING DATE: 2003-05-02

PRIOR APPLICATION NUMBER: 09/815, 153

PRIOR FILING DATE: 2001-03-21

PRIOR APPLICATION NUMBER: 60/191, 201

PRIOR FILING DATE: 2000-03-22

NUMBER OF SEQ ID NOS: 84

SOFTWARE: Patentin Ver. 2.1

SEQ ID NO 22

LENGTH: 198

DB : 226 KAASAPTDL 234 ;

RESULT 12 ;

US-10-302-172-950 ; Sequence 950, Application US/10302172

Publication No. US20040053250A1 ;

GENERAL INFORMATION:
 APPLICANT: Tang, Y. Tom
 APPLICANT: Xue, Aidong, J.
 APPLICANT: Drmanac, Radoje T.
 TITLE OF INVENTION: No. US20040532504 A1 Arginine-rich Protein-like Nucleic Acids and Polypeptides
 FILE REFERENCE: 803_1CNCP
 CURRENT APPLICATION NUMBER: US/10/302,172
 PRIOR APPLICATION NUMBER: US/10/225,251
 PRIOR FILING DATE: 2002-08-20
 PRIOR APPLICATION NUMBER: PCT US02/05095
 PRIOR APPLICATION NUMBER: US 09/799,451
 PRIOR FILING DATE: 2001-03-05
 NUMBER OF SEQ ID NOS: 950
 SOFTWARE: pc_FL_genes Version 2.0
 SEQ ID NO: 950
 LENGTH: 234
 TYPE: PRT
 ORGANISM: Homo sapiens
 US-10-302-172-950

Query Match 54.1%; Score 532; DB 4; Length 234;
 Best Local Similarity 56.1%; Pred. No. 6.8e-48;
 Matches 106; Conservative 26; Mismatches 45; Indels 12; Gaps 3;

Qy 1 MWCAASPVAVFAFCAGLIVSHPVLTQGAEAGRPGADECVCKEFRLRFYKSLIDRGYVNSL 60
 Db 56 MWATQGLAVRVALSVPGSRAL-----RPG-DECVCTSYLGRFYQDLKDRTVFSP 105

Qy 61 DTIEKELISFLTDKGKENRLCYLGATKDAATKILSEVRPMVHMPAMKICEKLKKLD 120
 Db 106 ATIENELIKFCEARGKENRLCYLGATKDAATKILSEVRPMVHMPAMKICEKLKKLD 165

Qy 121 SQICELKYEKTLDASVDRKMRVAELKQILHSGECRACAEKTDVNLQELAPKY- 179
 Db 166 SQICELKYDQDLSTVDLKKRVEKRLDDWGTCCKGCAEKSVDYRKINELMPKYAP 225

Qy 180 -ATHPKTEL 187
 Db 226 KAASAPDL 234

RESULT 13
 US-09-815-153-6
 Sequence 6, Application US/09815153
 Patent No. US20020132978A1
 GENERAL INFORMATION:
 APPLICANT: RASTELLI, LUCA K.
 APPLICANT: GERBER, HANS-PETER
 TITLE OF INVENTION: VEGF-MODULATED GENES AND METHODS EMPLOYING THEM
 FILE REFERENCE: 10716/34
 CURRENT FILING DATE: 2001-03-21
 PRIOR APPLICATION NUMBER: US/09/815,153
 PRIOR FILING DATE: 2000-03-21
 NUMBER OF SEQ ID NOS: 47
 SEQ ID NO: 6
 LENGTH: 235
 TYPE: PRT
 ORGANISM: Homo sapiens
 US-09-815-153-6

Query Match 54.1%; Score 532; DB 3; Length 235;
 Best Local Similarity 56.1%; Pred. No. 6.9e-48;
 Matches 106; Conservative 26; Mismatches 45; Indels 12; Gaps 3;

Qy 1 MWCAASPVAVFAFCAGLIVSHPVLTQGAEAGRPGADECVCKEFRLRFYKSLIDRGYVNSL 60
 Db 57 MWATQGLAVRVALSVPGSRAL-----RPG-DECVCTSYLGRFYQDLKDRTVFSP 106

Qy 1 MWCAASPVAVFAFCAGLIVSHPVLTQGAEAGRPGADECVCKEFRLRFYKSLIDRGYVNSL 60
 Db 57 MWATQGLAVRVALSVPGSRAL-----RPG-DECVCTSYLGRFYQDLKDRTVFSP 106

Qy 61 DTIEKELISFLTDKGKENRLCYLGATKDAATKILSEVRPMVHMPAMKICEKLKKLD 120
 Db 107 ATIENELIKFCEARGKENRLCYLGATKDAATKILSEVRPMVHMPAMKICEKLKKLD 166

Qy 121 SQICELKYEKTLDASVDRKMRVAELKQILHSGECRACAEKTDVNLQELAPKY- 179
 Db 167 SQICELKYDQDLSTVDLKKRVEKRLDDWGTCCKGCAEKSVDYRKINELMPKYAP 226

Qy 180 -ATHPKTEL 187
 Db 227 KAASAPDL 235

RESULT 15
 US-09-815-153-7
 Sequence 7, Application US/09815153
 Patent No. US20020132978A1
 GENERAL INFORMATION:
 APPLICANT: RASTELLI, LUCA K.
 APPLICANT: GERBER, HANS-PETER
 TITLE OF INVENTION: VEGF-MODULATED GENES AND METHODS EMPLOYING THEM
 FILE REFERENCE: 10716/34
 CURRENT APPLICATION NUMBER: US/09/815,153
 CURRENT FILING DATE: 2001-03-21
 PRIOR APPLICATION NUMBER: 60/191,201
 PRIOR FILING DATE: 2000-03-21
 NUMBER OF SEQ ID NOS: 47
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO: 7

Qy 1 MWCAASPVAVFAFCAGLIVSHPVLTQGAEAGRPGADECVCKEFRLRFYKSLIDRGYVNSL 60
 Db 57 MWATQGLAVRVALSVPGSRAL-----RPG-DECVCTSYLGRFYQDLKDRTVFSP 106

```

i LENGTH: 196
i TYPE: prt
i ORGANISM: Murine sp.
4 US-09-815-153-7

Query Match 54.0%; Score 530.5; DB 3; Length 196;
Best Local Similarity 53.8%; Pred. No. 7.7e-48;
Matches 105; Conservatve 27; Mismatches 40; Indels 23; Gaps 4;
Matches 105; Conservatve 27; Mismatches 40; Indels 23; Gaps 4;

Qy 15 GLLVSHPVLITQGP-----AGG-----RPGADCBVCKREFLNRPYKSLIDR 54
Db 3 GSPARHPAVVETAEEDVGYARAGTTLASVLPSRALRPG-DCEVCISYLGPFYQDLKDR 61

Qy 55 GVNFSLDTIEKELISFCFLDTKGKENRLLCYLGATKDAATKILSEVTTRPMVHMPAMKICE 114
Db 62 DVTFSPATIEEBLIKPCREARGERNLCTYIGATDDATKINBEVSKPAHHHPVEKICE 121

Qy 115 KLRKLDSDQICELKYKETKLDASVDLRKMRVAELKQILHSWGEBCRACAEKTDYVNLIQEL 174
Db 122 KLRKLDSDQICELKYKQDLSVTLKRVKEIKLUDWGENCKGCAEKSDTIRKINEL 181

Qy 175 APKVA-ATHPKTEL 187
Db 182 MPKVAPKAASARTDL 196

```

Search completed: December 13, 2005, 03:14:20
 Job time : 167 secs

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OM protein - protein search, using SW model

Run on: December 13, 2005, 03:06:07 ; Search time 11 Seconds

Perfect score: 983 (without alignments)

Sequence: 1 MWKASPVAVFAFCAGLLVSH.....VNLIQELAPKVAATHPKTEL 187

Title: US-10-648-361-2

Scoring table: BLOSUM62 Gapext 0.5

Searched: 32527 seqs, 5584426 residues

Total number of hits satisfying chosen parameters: 32527

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database : Published Applications AA_New:*

1: /cgn2_6/picodata/1/pubpaas/US09_NEW_PUB.pep:*

2: /cgn2_6/picodata/1/pubpaas/US05_NEW_PUB.pep:*

3: /cgn2_6/picodata/1/pubpaas/US07_NEW_PUB.pep:*

4: /cgn2_6/picodata/1/pubpaas/US08_NEW_PUB.pep:*

5: /cgn2_6/picodata/1/pubpaas/PCT_NEW_PUB.pep:*

6: /cgn2_6/picodata/1/pubpaas/US10_NEW_PUB.pep:*

7: /cgn2_6/picodata/1/pubpaas/US11_NEW_PUB.pep:*

8: /cgn2_6/picodata/1/pubpaas/US60_NEW_PUB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SEQUENCE

ALIGNMENTS

RESULT 1
US-10-821-234-1420
; Sequence 1420, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crain, Birgit
; APPLICANT: Andarmari, Susan
; APPLICANT: Tang, Y. Tom
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
; CURRENT APPLICATION NUMBER: US/10-821,234
; CURRENT FILING DATE: 2004-04-07
; PRIORITY APPLICATION NUMBER: US 60/462,047
; PRIORITY FILING DATE: 2003-04-07
; NUMBER OF SEQ ID NOS: 1704
; SOFTWARE: Dc_SEQ_genes Version 1.0
; SEQ ID NO 1420
; LENGTH: 182
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-821-234-1420

Query Match 54.7%; Score 538; DB 6; Length 182;
Best Local Similarity 56.6%; Pred. No. 1e-46;
Matches 107; Conservative 26; Mismatches 44; Indels 12; Gaps 4;

Qy 1 MWCAASPVAVFAFCAGLLVSHPVLTQEQAGRPAGDCEVKEFLNRFYKSLLDRGIVNFSL 60
Db 4 MWATGGLA-VALALSVLPGSRL-----RPG-DCEVCISLGRFYQDLKDQDVTFS 53

Qy 61 DTIEKELISFLCDTKGKENRLCYLGATKDAATKILSEYTRPMSYHMPAMKICSEKLUKJ 120
Db 54 ATIEVELIKYCRAEKGKENRLCYTGATDAATKLINEVSKPLAHIPVKEKICSEKLUK 113

Qy 121 SQICELKYKETLDLAVSVDLRLKMRVYAEKLQIQLHSNGECCRACAEKTDYUNLQELAPKVA- 179
Db 114 SQICELKYKETLDLAVSVDLRLKMRVYAEKLQIQLHSNGECCRACAEKTDYUNLQELAPKVA- 173

Qy 180 -ATHPKTEL 187
Db 174 KAAASARTDL 182

RESULT 2
US-11-108-528-78
; Sequence 78, Application US/11108528
; Publication No. US20050261189A1

Result No.	Score	Query Match	Length	DB ID	Description
1	538	54.7	182	6 US-10-821-234-1420	Sequence 1420, Ap
2	82.5	8.4	355	7 US-11-108-528-78	Sequence 78, Ap
3	82.5	8.4	365	7 US-11-108-528-76	Sequence 76, Ap
4	79.5	8.1	394	6 US-10-821-234-1187	Sequence 1187, Ap
5	74	8.0	524	6 US-10-821-234-1631	Sequence 1631, Ap
6	74	7.5	333	7 US-11-004-759-2	Sequence 2, Appli
7	72.5	7.4	643	6 US-10-510-386-8	Sequence 8, Appli
8	72	7.3	296	6 US-10-131-856A-26	Sequence 26, Appli
9	72	7.3	733	7 US-11-011-762-68	Sequence 68, Appli
10	71.5	7.3	1062	7 US-11-137-465-43	Sequence 43, Appli
11	70.5	7.2	977	7 US-11-093-274-39	Sequence 39, Appli
12	69.5	7.1	936	6 US-10-467-657-1856	Sequence 1856, Ap
13	69.5	7.1	718	7 US-11-074-176-306	Sequence 306, Ap
14	69.5	7.1	723	7 US-11-074-176-18	Sequence 18, Appli
15	67.5	6.9	319	7 US-11-074-176-74	Sequence 74, Appli
16	67	6.8	250	6 US-10-821-234-1659	Sequence 1659, Ap
17	67	6.8	729	7 US-11-093-691-3	Sequence 3, Appli
18	66.5	6.8	317	6 US-10-467-657-3320	Sequence 3320, Ap
19	66	6.7	1451	7 US-11-046-146-1	Sequence 1, Appli
20	65.5	6.7	179	6 US-10-485-517-158	Sequence 158, Ap
21	65.5	6.7	3002	6 US-10-821-234-916	Sequence 916, Ap
22	65	6.6	480	6 US-10-878-556A-198	Sequence 198, Ap
23	64.5	6.6	752	6 US-10-793-626-1138	Sequence 50, Appli
24	64	6.5	353	7 US-11-012-162-50	Sequence 2474, Ap
25	64	6.5	777	6 US-10-467-657-2474	Sequence 15, Appli

GENERAL INFORMATION:
 APPLICANT: Larsen, Glenn
 APPLICANT: Marvin, Martha
 APPLICANT: Li, Dean Y.
 APPLICANT: Wang, Elizabeth
 APPLICANT: Chen, C. M. Amy
 APPLICANT: Shamah, Steven M.
 TITLE OF INVENTION: METHODS OF PROMOTING CARDIAC CELL
 TITLE OF INVENTION: PROLIFERATION
 FILE REFERENCE: HYDR-P01-041
 CURRENT APPLICATION NUMBER: US/11/108-528
 CURRENT FILING DATE: 2005-04-18
 PRIOR APPLICATION NUMBER: US 60/563,137
 PRIOR FILING DATE: 2004-04-16
 PRIOR APPLICATION NUMBER: US 60/598,368
 PRIOR FILING DATE: 2004-08-02
 NUMBER OF SEQ ID NOS: 86
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO: 78
 LENGTH: 355
 TYPE: PRT
 ORGANISM: Homo sapiens
 US-11-108-528-78

Query Match 8.4%; Score 82.5; DB 7; Length 355;
 Best Local Similarity 23.0%; Pred. No. 0.3; Mismatches 28; Indels 71; Gaps 10;
 Matches 50; Conservative 23.0%; Mismatches 68; Indels 71; Gaps 10;

Qy 8 AYVAFAGLVLVSHPVLTQGQAGGRPGADCEV-----CKEFLNRFYKSL 51
 Db 125 AVNA--AGLVHS--VTRSCAGMTBCSDTTLQNGSASEGHWGGSSDD-----171

Qy 52 IDRGVNFSLDTIEKLISFL-DTKGKENRLCYLG-----ATKDAATKILSEVTRPMV 105
 Db 172 VOYGMWFS----RKFLDPIGNTTGKENVLLAMNLHNEAGRAVAKLMSVDCRCHGV 226

Qy 106 H-MPAMKICBKLKLDQICEL--KYEKTLIDASVDLRKMRVAFELQ-----149
 Db 227 SGSCAVKTCKWTKMSFEKIGHLLDKYENSIQISDKTKRMRRREKDQRKIPITHKDDLY 286

Qy 150 -----ILHSGBEECRACAEKTDYVNL 171
 Db 287 VNKSPNYCVEDKKLGIPGTQGRCNRTEGADGCNLL 323

RESULT 4

US-10-821-234-1187
 Sequence 1187, Application US/10821234
 Publication No. US20050255114A1
 GENERAL INFORMATION:
 APPLICANT: Labat, Ivan
 APPLICANT: Scache-Brain, Birgit
 APPLICANT: Andarmani, Susan
 APPLICANT: Tang, Y. Tom
 TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
 FILE REFERENCE: 821A
 CURRENT APPLICATION NUMBER: US/10/821-234
 CURRENT FILING DATE: 2004-04-07
 PRIOR APPLICATION NUMBER: US 60/462,047
 PRIOR FILING DATE: 2003-04-07
 NUMBER OF SEQ ID NOS: 1704
 SOFTWARE: Pt. SEQ_genes Version 1.0
 SEQ ID NO: 1187
 LENGTH: 394
 TYPE: PRT
 ORGANISM: Homo sapiens
 US-10-821-234-1187

Query Match 8.11%; Score 79.5; DB 6; Length 394;
 Best Local Similarity 25.0%; Pred. No. 0.67; Mismatches 42; Indels 69; Gaps 10;
 Matches 44; Conservative 21; Mismatches 42; Indels 69; Gaps 10;

Qy 67 LISPCLDTKGKENRLCYLG-----ATKDAATKILSEVTRPMVH-----PAMK 111
 Db 118 LLGCMIRHKG-----LGGESENFGDALLDAGSMRKLAEYKDSLDEVKONFIDPLQN 171

Qy 112 ICEK-----LMLDQICELKYKETKLIDASVDLRKMRVAFELQIILHSGBECRACAE 163
 Db 172 LCEKDLKEIQLHUKLKEGRRLDFYKKRQ-----GKIPDEBLRQALEKF-SESKVEA 224

Qy 164 -----KTDY-----VNLIOELAPK-----AATHPKTE 186
 Db 225 TSMHNLLETDIBQVSQLSALVDAQILDEAEKLKRMREASSRPFRE 280

RESULT 5

US-10-108-528-76
 Sequence 76, Application US/11108528
 Publication No. US20050261189A1
 GENERAL INFORMATION:
 APPLICANT: Larsen, Glenn
 APPLICANT: Marvin, Martha
 APPLICANT: Li, Dean Y.
 APPLICANT: Wang, Elizabeth
 APPLICANT: Chen, C. M. Amy
 APPLICANT: Shamah, Steven M.
 TITLE OF INVENTION: METHODS OF PROMOTING CARDIAC CELL
 FILE REFERENCE: HYDR-P01-041
 CURRENT APPLICATION NUMBER: US/11/108-528
 CURRENT FILING DATE: 2005-04-18
 PRIOR APPLICATION NUMBER: US 60/563,137
 PRIOR FILING DATE: 2004-04-16
 NUMBER OF SEQ ID NOS: 86
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO: 76
 LENGTH: 365
 TYPE: PRT
 ORGANISM: Homo sapiens
 US-11-108-528-76

GENERAL INFORMATION:
 APPLICANT: Andarmani, Susan
 APPLICANT: Tang, Y. Tom
 TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
 FILE REFERENCE: 821A
 CURRENT APPLICATION NUMBER: US/10/821-234
 Publication No. US20050255114A1
 GENERAL INFORMATION:
 APPLICANT: Labat, Ivan
 APPLICANT: Scache-Brain, Birgit
 APPLICANT: Andarmani, Susan
 TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
 FILE REFERENCE: 821A
 CURRENT APPLICATION NUMBER: US/10/821-234

CURRENT FILING DATE: 2004-04-07
 i PRIORITY APPLICATION NUMBER: US 60/462,047
 i PRIORITY FILING DATE: 2003-04-07
 i NUMBER OF SEQ ID NOS: 1704
 i SOFTWARE: pt_seq_Seq_Sgenes Version 1.0
 i SEQ ID NO: 1631
 i LENGTH: 524
 i TYPE: PRT
 i ORGANISM: Homo sapiens
 i US-10-821-234-1631

RESULT 7
 US-10-510-386-8
 i Sequence 8, Application US/10510386
 i Publication No. US2005024492A1
 i GENERAL INFORMATION:
 i APPLICANT: Andersen, Jens Tonne
 i APPLICANT: Clausen, Ib Groth
 i APPLICANT: Jorgensen, Steen Troels
 i APPLICANT: Olsen, Peter Bjarke
 i APPLICANT: Rasmussen, Michael Dolberg
 i TITLE OF INVENTION: Improved Bacillus Host Cell
 i FILE REFERENCE: 10294 204-US
 i CURRENT APPLICATION NUMBER: US/10/510,386
 i CURRENT FILING DATE: 2004-10-04
 i NUMBER OF SEQ ID NOS: 248
 i SOFTWARE: Patentin version 3.3
 i SEQ ID NO: 8
 i LENGTH: 643
 i TYPE: PRT
 i ORGANISM: Bacillus licheniformis
 i US-10-510-386-8

Query Match 8.0%; Score 79; DB 6; Length 524;
 Best Local Similarity 20.4%; Pred. No. 1.1; Mismatches 35; Indels 56; Gaps 11;
 Matches 40; Conservative 40; Mismatches 65; Indels 56; Gaps 5;

Qy 1 MWC----ASPVAAVFAFCAGLIVSHPVIITQGEBAGGRGAICEVCKREFNRPYKSLIDRG 55
 Db 31 VMCQNYKTASDCGAVKHLQTWNKPKPV-----KSLPCDICKDVKVTAAGDMKD-- 79

Qy 56 VNFSLDTIEKELISFCIDT----KGKENRLC-----YLGATDKATAKILSETRPMSV 105
 Db 80 -----NATEEEELVYLEKTCDWLPKNMMSASCKEIVDSYLPVLDI---IKGEMSRPGEV 131

Qy 106 HMPAMKICEKURKLDSCICELKYEKTLD---LASVDRKRM---RVAELKOLIHLHW---- 154
 Db 132 -CSALNICESLQK---HLAELNHQKQLESNKIPELDNTTEVAPPMANIPLLPPQDPRS 187

Qy 155 -----GEECRACAE 163
 Db 188 KPQPKDNGDVCDQI 203

RESULT 6
 i Sequence 2, Application US/11004789
 i Publication No. US20050255094A1
 i GENERAL INFORMATION:
 i APPLICANT: Stein, Bernd
 i APPLICANT: Yang, Maria X. H.
 i TITLE OF INVENTION: MITOGEN-ACTIVATED PROTEIN KINASE KINASE
 i FILE REFERENCE: 860098_403C1
 i CURRENT APPLICATION NUMBER: US/11/004,789
 i PRIORITY APPLICATION NUMBER: 2004-12-03
 i PRIORITY FILING DATE: 2000-06-13
 i PRIORITY APPLICATION NUMBER: US 09/593,288
 i PRIORITY FILING DATE: 1995-12-20
 i NUMBER OF SEQ ID NOS: 6
 i SOFTWARE: FastSeq for Windows Version 4.0
 i SEQ ID NO: 2
 i LENGTH: 333
 i TYPE: PRT
 i ORGANISM: homo sapien
 i US-11-004-789-2

Query Match 7.5%; Score 74; DB 7; Length 333;
 Best Local Similarity 17.1%; Pred. No. 1.9; Mismatches 59; Indels 48; Gaps 5;
 Matches 30; Conservative 38; Mismatches 59; Indels 48; Gaps 5;

Qy 36 DCEVCKEF---LNRFYKSLIDRGYNFSLOTIEKELISFCIDTKGKENRUCYLYGATKDA 91
 Db 123 DVWICNBLMDTSLDKEYQV1DKGQTIPEDILGKIAVASTVKAELHHSKU----- 172

Qy 92 ATKILSETRPMSVHMPAM---KICB-----KIKKLDQICE 125
 Db 173 --SVTHRDVKPSNVLINALGQVKMCDFGISGYLVDSVAKTIDAGCKPMPAERINPELNQ 230

Qy 126 LKYEKTLDSLAVDLRKMRVAAELKQLHSGECCRACAKTDYVNLQELAPKYYA 180
 Db 231 KGYSVKSIDNSLGITMIEALLRFPYDSDWGTTPFQQLKQ-----VVEEPSPQLPA 279

; PRIOR FILING DATE: 1997-09-17
 ; PRIOR APPLICATION NUMBER: 60/059117
 ; PRIOR FILING DATE: 1997-09-17
 ; PRIOR APPLICATION NUMBER: 60/059122
 ; PRIOR FILING DATE: 1997-09-17
 ; PRIOR APPLICATION NUMBER: 60/059184
 ; PRIOR FILING DATE: 1997-09-17
 ; PRIOR APPLICATION NUMBER: 60/059263
 ; PRIOR FILING DATE: 1997-09-18
 ; PRIOR APPLICATION NUMBER: 60/059352
 ; PRIOR FILING DATE: 1997-09-19
 ; PRIOR APPLICATION NUMBER: 60/059588
 ; PRIOR FILING DATE: 1997-09-19
 ; Remaining Prior Application data removed - See File Wrapper or PALM.
 ; NUMBER OF SEQ ID NOS: 550
 ; SEQ ID NO: 26
 ; LENGTH: 296
 ; TYPE: PRT
 ; ORGANISM: Homo Sapien
 US-10-111-82A-26

Query Match 7.3%; Score 72; DB 6; Length 296;
 Best Local Similarity 26.6%; Pred. No. 2.6%; Indels 46; Gaps 9;
 Matches 41; Conservative 22; Mismatches 45; Indels 46; Gaps 9;

Qy 57 NPSLDTTKEBLISFCLDTKGKENPLCYLGATKDAATKL-----LSEVYTRPMS-- 104
 Db 98 NQTDSSLRKLIELQED--KHN---YETTAKESLRRVRLQEKIEVVRKLSEVERSILANT 150

Qy 105 ---VRMPAM----KICELKKLDSQICELKYKETDLASVDRKMRVAELKQILHSLW 154
 Db 151 EDECTHLMERNERTQEE:RELANKYNGAVNEIK----DLSD----KLVVAECKQ---- 196

Qy 155 GEBC--RACAEKTDYVNLIQELAPKYAATHPKTE 186
 Db 197 -EEIQQKGQAEEKKBLQHKIDEMEEKEQELQAKIE 229

RESULT 9
 US-11-012-762-68
 ; Sequence 68, Application US/11012762
 ; Publication No. US20050244815A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Georgia State University Research Foundation, Inc.
 ; TITLE OF INVENTION: Compositions and Methods for Viral Resistance Genes
 ; FILE REFERENCE: GSU1.PCT
 ; CURRENT APPLICATION NUMBER: US/11/012,762
 ; CURRENT FILING DATE: 2004-12-15
 ; PRIOR APPLICATION NUMBER: PCT/US03/19300
 ; PRIOR FILING DATE: 2003-06-19
 ; NUMBER OF SEQ ID NOS: 133
 ; SEQ ID NO: 68
 ; LENGTH: 733
 ; TYPE: PRT
 ; ORGANISM: Rattus norvegicus
 US-11-012-762-68

Query Match 7.3%; Score 72; DB 7; Length 733;
 Best Local Similarity 19.0%; Pred. No. 8.2%; Indels 24; Gaps 6;
 Matches 28; Conservative 35; Mismatches 60; Indels 24; Gaps 6;

Qy 38 EVCKEPLNRFYKSLIDRGYNFSLDT-IEKELISPOLDTKGKENPLCYLGATKDAATKL 96
 Db 471 BACQKAFN-----LGIVKFDISKWMAPRVLSPTELSKLQSVFDPALDQIR 522

Qy 97 SEVTRPMSVHMPAKIC--EKLRLKDSQICELKYKETDLASVDRKMRVAELKQILHSLW 153
 Db 523 SDYTSRLLKAYKKLIELYASODSLKGEGFSVCFBLQRDF---IETRPTKLKGILRLKH 578

Qy 154 WGEEC-RACAEKTDYVNLIQELAPKYA 179

RESULT 10
 US-11-13-465-43
 ; Sequence 43, Application US/11137465
 ; Publication No. US20050255550A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Agarwal, Pankaj
 ; APPLICANT: Murdoch, Paul R.
 ; APPLICANT: Rizvi, Safia, K.
 ; APPLICANT: Smith, Randall, F.
 ; APPLICANT: Xiang, Zhaoying
 ; APPLICANT: Kabnick, Karen
 ; TITLE OF INVENTION: NOVEL COMPOUNDS
 ; FILE REFERENCE: GBS0018
 ; CURRENT APPLICATION NUMBER: US/11/137,465
 ; CURRENT FILING DATE: 2005-05-25
 ; PRIOR APPLICATION NUMBER: US/10/239,663
 ; PRIOR FILING DATE: 2002-09-24
 ; PRIOR APPLICATION NUMBER: PCT/US01/09226
 ; PRIOR FILING DATE: 2001-03-22
 ; PRIOR APPLICATION NUMBER: 60/192,158
 ; PRIOR FILING DATE: 2000-03-24
 ; PRIOR APPLICATION NUMBER: 60/192,668
 ; PRIOR FILING DATE: 2000-03-27
 ; PRIOR APPLICATION NUMBER: 60/200,166
 ; PRIOR FILING DATE: 2000-04-27
 ; NUMBER OF SEQ ID NOS: 66
 ; SOFTWARE: Fast-SEQ for Windows Version 3.0
 ; SEQ ID NO: 43
 ; LENGTH: 1062;
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-11-137-465-43

Query Match 7.3%; Score 71.5%; DB 7; Length 1062;
 Best Local Similarity 18.8%; Pred. No. 15;
 Matches 25; Conservative 30; Mismatches 59; Indels 19; Gaps 4;

Qy 55 GVNFSLDTIEKELJSFCLDTKGKENRL-----CYYLGATKDAATKLSEVTRPMSVH 106
 Db 574 GCRMSPD-IKQENI.RCDISKGHSTVTDQBLGCLYESQBEELVKEVMAQF-KEISLH 631

Qy 107 MPA-----MKICELKKLDSQICELKYKETDLASVDRKMRVAELKQILHSLW 157
 Db 632 LNADVVPSSPCVYKHCRLQMSLQVTKENLPENNTASEDAEVERSQQDHMLPFWTDL 691

Qy 158 CRACAEKTDYVNL 170
 Db 692 CSIFGSNKDLMG1 704

RESULT 11
 US-11-013-274-39
 ; Sequence 39, Application US/11093274
 ; Publication No. US20050266008A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Cardarelli, Robert
 ; APPLICANT: Cardarelli, Josephine M.
 ; APPLICANT: Kempe, Thomas
 ; APPLICANT: Cutler, Beth
 ; APPLICANT: Srinivasan, Mohan
 ; TITLE OF INVENTION: IRTA-5 ANTIBODIES AND THEIR USES
 ; FILE REFERENCE: 04280/12/01/01-US1
 ; CURRENT APPLICATION NUMBER: US/11/093,274
 ; CURRENT FILING DATE: 2005-03-28
 ; PRIOR APPLICATION NUMBER: 60/557,741
 ; PRIOR FILING DATE: 2004-03-29
 ; NUMBER OF SEQ ID NOS: 41
 ; SOFTWARE: Patentin version 3.2
 ; SEQ ID NO: 39

LENGTH: 977
 ;
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-11-093-274-39

Query Match 7.2%; Score 70.5; DB 7; Length 977;
 Best Local Similarity 27.6%; Pred. No. 17;
 Matches 34; Conservative 14; Mismatches 52; Indels 23; Gaps 7;

Qy 2 WCAS---PVAVA----FCAAGLYSHPVLTQGQE---AGGRPGADCEVCKEPLNRF 47
 Db 259 WCKAATMPHSV7TSDSPRSWIVQIPASHVPLSPKALNPEGTQVTLCEQDSLRTL 318

Qy 48 YKSLIDRGVNFSLDTKERE---LISPLDITKGKENRLCYY--LGATKDATKILSEVTR 101
 Db 319 YR-FYHEGVPLRKSVRCERGASISFSLTENSGNYCTADNGLAKPSKAVSL--SVT 375

Qy 102 PMS 104
 Db 376 PVS 378

RESULT 12
 US-10-467-657-1856
 ; Sequence 1856, Application US/10467657
 ; Publication No. US20050260581A1
 ; GENERAL INFORMATION:
 ; APPLICANT: CHIRON SpA
 ; APPLICANT: FONTANA, Maria Rita
 ; APPLICANT: PIZZA, Mariagrazia
 ; APPLICANT: MASIGNANI, Vega
 ; APPLICANT: MONACI, Elisabetta
 ; TITLE OF INVENTION: CONOCOCAL PROTEINS AND NUCLEIC ACIDS
 ; FILE REFERENCE:
 ; CURRENT APPLICATION NUMBER: US/10/467,657
 ; CURRENT FILING DATE: 2003-08-11
 ; PRIOR APPLICATION NUMBER: GB-0103424.8
 ; PRIOR FILING DATE: 2001-02-12
 ; NUMBER OF SEQ ID NOS: 9218
 ; SOFTWARE: SeqWin99, version 1.04
 ; SEQ ID NO: 1856
 ; LENGTH: 636
 ; TYPE: PRT
 ; ORGANISM: Neisseria gonorrhoeae
 US-10-467-657-1856

Query Match 7.1%; Score 69.5; DB 6; Length 636;
 Best Local Similarity 27.6%; Pred. No. 12;
 Matches 27; Conservative 22; Mismatches 34; Indels 15; Gaps 6;

Qy 24 TQGQE----AGGRPGADCEVCKEFLNRFYKSLIDRGNV-FSLDTIEKELISFCLDTKGK 77
 Db 277 TEGKTMVMTGAGGSIGS--EUCQIRRPERLILFELSEPALTYVKELEYCA-RNGI 333

Qy 78 ENRLCYYLGATKDATKILSEVTRPMS---HMPAMK 111
 Db 334 AAEILPFLGSQNR7--LLTHMTAFSVALTYHAAAYK 369

RESULT 13
 US-11-074-176-306
 ; Sequence 306, Application US/11074176
 ; Publication No. US20050250135A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Klaehammer, Todd R.
 ; APPLICANT: Russell, William M.
 ; APPLICANT: Altermann, Eric
 ; APPLICANT: McAuliffe, Olivia
 ; APPLICANT: Peril, Andrea Azcarate
 ; TITLE OF INVENTION: Nucleic Acid Sequences Encoding
 ; Stress-Related Proteins and Uses Therefore
 ; FILE REFERENCE: 5051-694
 ; CURRENT APPLICATION NUMBER: US/11/074,176
 ; CURRENT FILING DATE: 2005-03-07
 ; PRIOR APPLICATION NUMBER: 60/551,161
 ; NUMBER OF SEQ ID NOS: 381
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO: 18
 ; LENGTH: 723
 ; TYPE: PRT
 ; ORGANISM: Lactobacillus acidophilus
 US-11-074-176-306

Query Match 7.1%; Score 69.5; DB 7; Length 723;
 Best Local Similarity 26.4%; Pred. No. 14;
 Matches 47; Conservative 28; Mismatches 56; Indels 47; Gaps 12;

Qy 22 VLTGQ----EAGGRPGADCEVCKEFL--NRF----YKSLIDRGNVFSLDTIE 64
 Db 497 ILTRNQLFQEQIVGLMGGRAGEATIGDKSTGASNDFEQATOQIAHSMVNVGMTESLGMVE 556

Qy 65 KELISFCLDTKGKENRLCY--YLGAT---KDAATKILSEVTRPMSVHMPAMKICEKLKK 118
 Db 557 -----LEKEGESENPYGFKPYSSEATAAKIDEAVRKILDE----AHAKALEIVRNKE 603

RESULT 14
 US-11-074-176-18
 ; Sequence 18, Application US/11074176
 ; Publication No. US20050250135A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Klaehammer, Todd R.
 ; APPLICANT: Russell, William M.
 ; APPLICANT: Altermann, Eric
 ; APPLICANT: McAuliffe, Olivia
 ; APPLICANT: Peril, Andrea Azcarate
 ; TITLE OF INVENTION: Nucleic Acid Sequences Encoding
 ; Stress-Related Proteins and Uses Therefore
 ; FILE REFERENCE: 5051-694
 ; CURRENT APPLICATION NUMBER: US/11/074,176
 ; CURRENT FILING DATE: 2005-03-07
 ; PRIOR APPLICATION NUMBER: 60/551,161
 ; NUMBER OF SEQ ID NOS: 381
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO: 18
 ; LENGTH: 723
 ; TYPE: PRT
 ; ORGANISM: Lactobacillus acidophilus
 US-11-074-176-18

Query Match 7.1%; Score 69.5; DB 7; Length 723;
 Best Local Similarity 26.4%; Pred. No. 14;
 Matches 47; Conservative 28; Mismatches 56; Indels 47; Gaps 12;

Qy 22 VLTGQ----EAGGRPGADCEVCKEFL--NRF----YKSLIDRGNVFSLDTIE 64
 Db 502 ILTRNQLFQEQIVGLMGGRAGEATIGDKSTGASNDFEQATOQIAHSMVNVGMTESLGMVE 561

Qy 65 KELISFCLDTKGKENRLCY--YLGAT---KDAATKILSEVTRPMSVHMPAMKICEKLKK 118
 Db 562 -----LEKEGESENPYGFKPYSSEATAAKIDEAVRKILDE----AHAKALEIVRNKE 608

Qy 119 LDSQICE--LKYEKTLIDASV-DLRKM--RVAELQILH----SWGEERCAEKTID 166
 Db 609 KHRITAELLKYE-TLDEQIMSLYKTGMPEKDETTEYPSSESKASTYEEAKAAEKE 665

RESULT 15
 US-11-074-176-74
 ; Sequence 74, Application US/11074176

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OM protein - protein search, using sw model

Run on: December 13, 2005, 02:57:42 ; Search time 37 Seconds

Perfect score: 983

Sequence: 1 MWCASPVAVVAFAGLLVSH.....VNLQELAPKYZAATHPKTEL 187

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0% Maximum Match 100%

Database : PIR 80:*

- 1: Pir1:*
- 2: pir2:*
- 3: pir3:*
- 4: Pir4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES					
Result No.	Score	Query Match	Length	DB ID	Description
1	532	54.1	234	2 S27956	arginine-rich prot
2	95	9.7	498	1 S48058	cytochrome P450 CY
3	89.5	9.1	588	2 BVBCUC	excinuclease ABC,
4	89.5	9.1	588	2 D85808	excinuclease ABC,
5	89.5	9.1	775	2 C90960	excinuclease ABC
6	89.5	9.1	775	2 J49237	A20 protein - mouse
7	89	9.1	563	2 S13786	DNA-directed DNA polymerase
8	88.5	9.0	828	2 T06133	hypothetical protein
9	88	9.0	39	2 S69268	arginine-rich membrane
10	87.5	8.9	276	2 H81707	surfactin synthetase
11	87.5	8.9	3587	2 I40486	transcription initiation
12	87	8.9	481	2 T10470	phosphoglucomutase
13	87	8.9	583	2 T09157	retinoic acid receptor
14	83	8.4	463	2 S26670	retinoid-X receptor
15	83	8.4	463	2 S48058	cytochrome P450 CYP6B1 - black swallowtail
16	82	8.3	442	2 A38592	N: Contains: oxidoreductase (EC 1.1.-.-.-)
17	82	8.3	470	2 D41977	C: Species: Papilio polyxenes (black swallowtail)
18	82	8.3	476	2 B41977	C: Date: 10-Sep-1999 #sequence_revision 10-Sep-1999
19	81.5	8.3	389	2 C49776	C: Accession: S48058; A46367
20	81.5	8.3	389	2 A71091	R: Papaipong, R.; Schuler, M.A.
21	81	8.3	416	2 T25101	R: Berenbaum, M.R.; Berenbaum, M.A.
22	81.5	8.3	437	2 B70353	Nucleic Acids Res. 22, 3210-3217, 1994
23	81.5	8.3	610	2 AG0227	A: Title: Transcriptional regulation of the Papilio polyxenes CYP6B1 gene.
24	81	8.2	328	2 H75073	A: Reference number: S48058; PMID: 8065937
25	81	8.2	366	2 E71920	A: Accession: S48058
26	81	8.2	455	2 A36471	A: Status: preliminary
27	80	8.1	435	2 T2332	A: Molecule type: DNA
28	80	8.1	719	2 S51739	A: Residues: 1-498 <PRA>
29	80	8.1	880	2 F75103	A: Cross-references: UNIPROT:Q04552; UNIPARC:UPI000016BFBB; EMBL:Z299624; NID:9520879; PI

ALIGNMENTS

RESULT 1

S27956 arginine-rich protein - human

C;Species: Homo sapiens (man)

C;Date: 17-Apr-1993 #sequence_revision 17-Apr-1993 #text_change 09-Jul-2004

C;Accession: S27956

R;Golembieski, W.; Shridhar, V.; Miller, O.J.; Smith, D.I.

submitted to the EMBL Data Library, June 1992

A;Description: Identification of a new arginine-rich gene from a cosmid containing clue

A;Reference number: S27956

A;Accession: S27956

A;Molecule type: DNA

A;Residues: 1-234 <GOL>

A;Cross-references: UNIPROT:Q86U67; UNIPARC:UPI000015C44A; EMBL:M83751; NID:9178990; PI

Query Match 54.1%; Score 532; DB 2; Length 234;

Best Local Similarity 56.1%; Pred. No. 4e-38;

Matches 106; Conservative 26; Mismatches 45; Indels 12; Gaps 3;

Qy 1 MWCAСПVAVVAFCAГILVSHPVЛVTLQEQAGRPAGCEVКEFLNRFYKSLIDRGYNFSL 60

Db 56 MWATQCLAVRVALSVPGLSRAL-----RPG-DCEVCISYLGRFYQDLKDРDTFSP 105

Qy 61 DTEIKEELISFLCDTKGKENRЛCYЛGATKDAATKILSEYTRPMVHMPAMKICKEKUKLД 120

Db 106 ATENELIKECREARGKENRЛCYTGAДDAATKLINEVSKPLAHIPVКICKEKUKD 165

Qy 121 SQICELKYKTEЛDLSVДLRKMRVAKLQILHSRГЕБCRACAEKTДYNEIQELAPKYA- 179

Db 166 SQICELKYKQD1STVДLKKLРKLDGSEТCГСАЕKSDYIRKNEЛMPKYAP 225

RESULT 2

S48058

cytochrome P450 CYP6B1 - black swallowtail

N: Contains: oxidoreductase (EC 1.1.-.-.-)

C: Species: Papilio polyxenes (black swallowtail)

C: Date: 10-Sep-1999 #sequence_revision 10-Sep-1999

C: Accession: S48058; A46367

R: Papaipong, R.; Schuler, M.A.

R: Berenbaum, M.R.; Berenbaum, M.A.

Nucleic Acids Res. 22, 3210-3217, 1994

A: Title: Transcriptional regulation of the Papilio polyxenes CYP6B1 gene.

A: Reference number: S48058; PMID: 8065937

A: Accession: S48058

R; Cohen, M.B.; Schuler, M.A.; Berenbaum, M.R.; Proc. Natl. Acad. Sci. U.S.A. 89, 10920-10924, 1992
 A; Title: A host-inducible cytochrome P-450 from a host-specific caterpillar: molecular c
 A; Reference number: A46367; MUID:93066355; PMID:1279697
 A; Status: preliminary
 A; Molecule type: mRNA; protein
 A; Residues: 1-23, N' 25-154 'NS', 157-498 <COH>
 A; Cross-references: UNIPARC:UPI0000126C97; GB:MB08028; NID:9160763; PIDN:AAA29789.1; PID: X05398; NID:943291; PIDN:CAA28983.1; PMID:3295776
 A; Note: sequence extracted from NCBI backbone (NCBIN:118719, NCBIP:118720)
 C; Genetics: 445/1
 A; Introns: 445/1
 A; Cross-references: UNIPARC:UPI0000126C97; GB:MB08028; NID:9160763; PIDN:AAA29789.1; PID: X05398; NID:943291; PIDN:CAA28983.1; PMID:3295776
 C; Keywords: chromoprotein; heme; iron; metalloprotein; oxidoreductase
 F:300-455/Domain: Cytochrome P450 homology <P455;
 F:443/Binding site: heme iron (Cys) (axial ligand) #status predicted

Query Match 9.7%; Score 95; DB 1; Length 498;
 Best Local Similarity 22.1%; Pred. No. 2;
 Matches 43; Conservative 25; Mismatches 65; Indels 62; Gaps 6;

Qy 36 DCEVCKEFLNRPKYKSLIDRGVNFNSLDTIEKELISFLCLD-----TKGKENRLC 82
 Db 84 DLDLTKHVLIKDPSFARQVEFSLQDGIGANIPHADGGRWRSLSRNRFPLFTSGKLKSM 143

Qy 83 YILGATKDAATKILSEV--TRP--MSVHPAMK-----ICBKLKKLDS 121
 Db 144 PLMSQVGDRFIKCIDEVSOTQPEOSIHNLVQKETMTNTAACVFGLNLDLDEGMLKTLEDDK 203

Qy 122 QICELKVKYKTLASVDRK-----MRYVAELKQILHSMNGBECRACA 162
 Db 204 HIFTVNYSASLDQMMYPPGLKRLKNSLFFPKVSKFDPDNUTKAVLJEMRKTPSY ----- 255

Qy 163 EKTDYVNLQIELAPK 177
 Db 256 -QKDMIDLJQELREK 269

RESULT 4
 D88808 excinuclease ABC, chain C - Escherichia coli (strain O157:H7, substrate EDL933)
 C; Species: Escherichia coli

C; Date: 16-Feb-2001 #sequence_revision 16-Feb-2001
 C; Accession: D88808
 R; Perna, N.T.; Plunkett III, G.; Burland, V.; Mau, B.; Glasner, J.D.; Rose, D.J.; Mayneiller, J.; Grotbeck, B.J.; Davis, N.W.; Lim, A.; Dimalanta, E.; Potamitis, K.; Apodaca Nature 409, 529-533, 2001
 A; Title: Genome sequence of enterohemorrhagic Escherichia coli O157:H7.
 A; Reference number: A85480; PMID:21074935; PMID:11206551
 A; Accession: D88808
 A; Status: preliminary
 A; Molecule type: DNA
 A; Residues: 1-588 <STO>
 A; Cross-references: UNIPARC:UPI00000D05E0; GB:AB0005174; NID:912516011; PIDN:AG56928.1;
 C; Genetics: 445/1
 A; Cross-references: UNIPARC:UPI00000D05E0; GB:AB0005174; NID:912516011; PIDN:AG56928.1;
 C; Keywords: excinuclease ABC, chain C; uvrC protein
 C; Species: Escherichia coli
 C; Date: 31-Mar-1998 #sequence_revision 23-Jan-1998 #text_change 01-Mar-2002
 R; Blattner, F.R.; Plunkett III, G.; Bloch, C.A.; Perna, N.T.; Burland, V.; Riley, M.; Cole, J.A.; Rose, D.J.; Mau, B.; Shao, Y.
 Science 277, 1453-1462, 1997
 A; Title: The complete genome sequence of Escherichia coli K-12.
 A; Reference number: A64720; MUID:9728503
 A; Status: nucleic acid sequence not shown; translation not shown
 A; Molecule type: DNA
 A; Residues: 1-588 <BLAT>
 A; Experimental source: strain K-12, substrate MG1655
 R; Sancar, G.B.; Sancar, A.; Rupp, W.D.
 Nucleic Acids Res. 12, 4593-4608, 1984
 A; Title: Sequences of the E. coli uvrC gene and protein.
 A; Reference number: A22863; MUID:6330676
 A; Accession: A22863
 A; Molecule type: DNA
 A; Residues: 1-268, N', 270-588 <SANS>
 A; Cross-references: UNIPARC:UPI000016F603; GB:X03691; GB:X00189; GB:X00638; NID:913287;
 R; Sharma, S.; Stark, T.F.; Beattie, W.G.; Moses, R.E.
 Nucleic Acids Res. 14, 2301-2318, 1986
 A; Title: Multiple control elements for the uvrC gene unit of Escherichia coli.
 A; Reference number: A93609; MUID:86176730; PMID:351518
 A; Accession: C24964
 A; Molecule type: DNA
 A; Cross-references: UNIPARC:UPI00001748BD; GB:X03691; GB:X00189; GB:X00638; NID:913287
 R; Moelenaar, G.F.; van Sluis, C.A.; Backendorf, C.; van de Putte, P.

RESULT 5

C90960 excinuclease ABC subunit C [imported] - Escherichia coli (strain O157:H7, substrain RIMD 2.0) C;Species: Escherichia coli C;Accession: C90960 C;CDate: 18-Jul-2001 #sequence_revision 18-Jul-2001 #text_change 03-Aug-2001 C;Cross-references: UNIPARC:UPI00000005E0; GB:BA0000007; PID:BAB36074.1; PID:g13362119; A;Title: Complete genome sequence of enterohemorrhagic Escherichia coli O157:H7 and genomic A;Reference number: A99629; MUID:21156231; PMID:11258796 A;Accession: C90960 A;Status: preliminary A;Molecule type: DNA A;Residues: 1-588 <HAY> A;Cross-references: UNIPARC:UPI00000005E0; GB:BA0000007; PID:BAB36074.1; PID:g13362119; A;Experimental source: strain O157:H7, substrain RIMD 0509952 C;Genetics: C;Superfamily: excinuclease ABC chain C

Query Match 9.1%; Score 89.5; DB 2; Length 588; Best Local Similarity 25.1%; Pred. No. 7; Matches 44; Conservative 29; Mismatches 51; Indels 51; Gaps 8;

Qy 10 VAFAGLGLVSHPV-LTQGQEAGGR-----PGAD--CEVCKEFINRFY-----K 49
Db 235 VAFDAGMACVAVLPIRQKVLGSRSYFPKVPGGTBLSEVETFQFYLOGSQMRITLPGE 294

Qy 50 SLIDRGYNFSLDTIEKELIS-----FCLDTKGCKENRLCYLGATKDAATKILSEVTRPM 103
Db 295 IILD-----PNLSDTKLTLADSSELAGRKINYQTKEGRDARYKLARTNAATAALTSKLSQS 352

Qy 104 SYHMPAMKICEKLUKKLDSOICELKXVTKLTLASV-DLRKMRVAEIKQILHLSWGBB 157
Db 353 TVH-----QRLTALASVTKLPEVKRMECDFISHTMGEQ 385

RESULT 6

I49237 A20 protein - mouse C;Species: Mus musculus (house mouse) C;CDate: 02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change 09-Jul-2004 C;Accession: I49237 R.Tewari, M.; Wolf, F.W.; Seldin, M.F.; O'Shea, K.S.; Dixit, V.M.; Turka, L.A. J. Immunol. 154, 1699-1706, 1995 A;Title: Lymphoid expression and regulation of A20, an inhibitor of programmed cell death A;Reference number: I49237; MUID:95138513; PMID:7836754 A;Accession: I49237 A;Status: preliminary; translated from GB/EMBL/DBJ A;Molecule type: mRNA A;Residues: 1-75 <ES> A;Cross-references: UNIPROT:Q60769; UNIPARC:UPI00000284A2; EMBL:U19463; NID:g640036; PID: A;Genetics: A;Gene: A20

Query Match 9.1%; Score 89.5; DB 2; Length 775; Best Local Similarity 22.6%; Pred. No. 9.6; Matches 30; Conservative 26; Mismatches 46; Indels 31; Gaps 5;

Qy 37 CEVKKEBLNRFYKSLIDORGVNTSLDTIEKELISFC-----LDTKCKENRL---CY 84
Db 54 CQFCQPQEIIHKALIDRSVQASLESQK---LWCRCRVRKVALKTINGDGNCLMHAACQY 111

Qy 85 LGATKDAATKILSEVTRPMVHMPAMKICEKLUKKLDSQICELKXVTKLTLASV 144
Db 112 MWGQDQDVLV-----RKAICSTLKEITDTRNFKFRWQ---LESIKSQEEV 154

Qy 145 ABLKQQLHLSWGBB 157
Db 155 TGLCYDTRNWNDE 167

RESULT 7

S13786	DNA-directed DNA polymerase (EC 2.7.7.7) III chain dnaX - <i>Bacillus subtilis</i>
C;Species: <i>Bacillus subtilis</i>	N;Alternative names: DNA polymerase III (gamma and tau subunits) dnaX
C;Date: 19-May-1994 #sequence revision 19-May-1994 #text_change 09-Jul-2004	C;Accession: S13786; S00745; S66049; B69618
R;Alfonso, J.C.; Shiraiige, R.; Ulrich, N.; Erdmann, V.A.	R;Struck, J.C.R.; Vogel, D.W.; Ulrich, N.; Ogasawara, H.
Nucleic Acids Res. 18, 2720, 1988	Nucleic Acids Res. 18, 6771-6777, 1990
A;Title: Molecular cloning, genetic characterization and DNA sequence analysis	A;Title: A dnaZ-like open reading frame downstream from the <i>Bacillus subtilis</i> subtilin operon
A;Reference number: S13786; MUID:91088245; PMID:2124672	A;Reference number: S00745; MUID:88203213; PMID:2452406
A;Accession: S13786	A;Accession: S00745
A;Molecule type: DNA	A;Molecule type: DNA
A;Residues: 1-563 <DNA>	A;Residues: 1-422 <DNA>
A;Cross-references: UNIPARC: P09122; UNIPARC: UPI000005FDC3; EMBL: X17014; PIDN: CAA04649; R;Kunst, F.; Ogasawara, N.; Mosser, I.; Albertini, A.M.; Alloni, G.; Azevedo R.; Ogasawara, N.; Nakai, S.; Yoshihikawa, H.	A;Cross-references: UNIPARC: UPI000016E84A; EMBL: X06803; PIDN: g39891; PIDN: CAA04649; R;Ogashawara, N.; Nakai, S.; Yoshihikawa, H.
DNA Res. 1, 1-14, 1994	DNA Res. 1, 1-14, 1994
A;Title: Systematic sequencing of the 180 kilobase region of the <i>Bacillus subtilis</i> chromosome	A;Title: Systematic sequencing of the 180 kilobase region of the <i>Bacillus subtilis</i> chromosome
A;Reference number: S66049; MUID:96051385; PMID:7584024	A;Reference number: S66049; MUID:96051385; PMID:7584024
A;Accession: S66049	A;Accession: S66049
A;Status: preliminary	A;Status: preliminary
A;Molecule type: DNA	A;Molecule type: DNA
A;Residues: 1-563 <DNA>	A;Residues: 1-563 <DNA>
A;Cross-references: UNIPARC: UPI000005FDC3; EMBL: D26185; PIDN: g467326; PIDN: BAA04649; R;Kunst, F.; Ogasawara, N.; Mosser, I.; Albertini, A.M.; Alloni, G.; Azevedo R.; Bron, S.; Bruschi, C.V.; Caldwell, B.; Capuano, V.; Carter, A.; Ehrlich, S.D.; Emerson, P.T.; Entian, K.D.; Errington, J.; Fabret, C.; Rieder, M.; Rivolta, C.; Rocha, E.; Roche, B.; Rose, M.; Sadaie, Y.; Sato, Y.; Schreiter, R.; Sekiguchi, J.; Sekowka, J.; Tanaka, T.; Terpstra, P.; Tosato, V.; Winters, P.; Wipat, A.; Yamamoto, H.; Yamane, K.; Yasumoto, K.; Yata, K.	A;Authors: Foulger, D.; Fritz, C.; Fujita, M.; Fujita, Y.; Galizzi, J.; Harwood, C.R.; Henaut, A.; Hilbert, H.; Hollappel, S.; Hosono, S.; Koetter, P.; Koenigstein, G.; Krogh, S.; Kumano, M.; Kurita, K.; Lapidus, A.; Lauber, J.; Lazarevic, V.; Lee, S.M.; Levine, A.; Liu, H.; Masuda, H.; Ogiwara, A.; Oudega, B.; Park, S.H.; Parro, V.; Pohl, T.M.; Rieder, M.; Rivolta, C.; Rocha, E.; Roche, B.; Rose, M.; Sadaie, Y.; Sato, Y.; Schreiter, R.; Sekiguchi, F.; Sekiguchi, J.; Sekowka, J.; Tanaka, T.; Terpstra, P.; Tosato, V.; Winters, P.; Wipat, A.; Yamamoto, H.; Yamane, K.; Yasumoto, K.; Yata, K.
A;Authors: Schreiter, R.; Sekiguchi, F.; Sekiguchi, J.; Sekowka, J.; Tanaka, T.; Terpstra, P.; Tosato, V.; Winters, P.; Wipat, A.; Yamamoto, H.; Yamane, K.; Yasumoto, K.; Yata, K.	A;Authors: Schreiter, R.; Sekiguchi, F.; Sekiguchi, J.; Sekowka, J.; Tanaka, T.; Terpstra, P.; Tosato, V.; Winters, P.; Wipat, A.; Yamamoto, H.; Yamane, K.; Yasumoto, K.; Yata, K.
A;Accession: B69618	A;Accession: B69618
A;Molecule type: DNA	A;Molecule type: DNA
A;Residues: 1-663 <KUN>	A;Residues: 1-663 <KUN>
A;Cross-references: UNIPARC: UPI000005FDC3; GB: 299104; GB: AL009126; PIDN: g2632	A;Cross-references: UNIPARC: UPI000005FDC3; GB: 299104; GB: AL009126; PIDN: g2632
C;Genetics:	C;Genetics:
A;Gene: dnaX	A;Gene: dnaX
A;Start codon: GTG	A;Start codon: GTG
C;Superfamily: DNA-directed DNA polymerase III gamma chain	C;Superfamily: DNA-directed DNA polymerase III gamma chain
C;Keywords: nucleotidyltransferase	C;Keywords: nucleotidyltransferase
Query Match	Query Match
Best Local Similarity	Score 9.1%; Score 89; DB 2; Length 563;
Matches 38; Conservative 32; Mismatches 55; Indels 58; Gaps	Matches 38; Conservative 32; Mismatches 55; Indels 58; Gaps
Qy	Qy
39 VCKEPLNRFYKSLIDRGYVNFSLDTIEKLISFLCLDTKGK-----ENRLCYY---LGAT 8	39 VCKEPLNRFYKSLIDRGYVNFSLDTIEKLISFLCLDTKGK-----ENRLCYY---LGAT 8
244 VSQLYIGKLAISLHDKNVSDAELTNELL-----QQQKDPAKIEDMIFYFRDMLYK 2	244 VSQLYIGKLAISLHDKNVSDAELTNELL-----QQQKDPAKIEDMIFYFRDMLYK 2
89 KDAATKILSEY---RPMSYHMPAMKICKEKKLDS-----	89 KDAATKILSEY---RPMSYHMPAMKICKEKKLDS-----
298 APGLLEGVLEKVKDDETRELSEQIPQAOLYEMIDILNKSHQEMKWTNHPRIFFEVAVVK 3	298 APGLLEGVLEKVKDDETRELSEQIPQAOLYEMIDILNKSHQEMKWTNHPRIFFEVAVVK 3
Qy	Qy

akeuchi, M.; Tamakoshi, A.; Tanaka, T.; Terpstra, P.; Tognoni, A.; Tosato, V.; Uchiyama, T.; Winters, P.; Wipat, A.; Yamamoto, H.; Yamane, K.; Yasumoto, K.; Yata, K.; Yoshiida, K. A; Authors: Yoshikawa, H. F.; Zumstein, E.; Yoshihiko, H.; Danchin, A. A; Title: The complete genome sequence of the Gram-positive bacterium <i>Bacillus subtilis</i> . A; Reference number: A69580; MUID:98044033; PMID:9384377	A; Status: nucleic acid sequence not shown; translation not shown A; Molecule type: DNA A; Residues: 1-3587; <KIN> A; Cross-references: UNIPARC:UPI000005FF03; GB:Z99105; GB:AL009126; NID:g2632457; PIDN:CA A; Experimental source: strain 168 A; Cross-references: UNIPARC:UPI0000086166; EMBL:X72672; NID:9516358; PIDN:CA05123.1; PI R; Fuma, S.; Fujishima, Y.; Corbelli, N.; D'Souza, C.; Nakano, M.M.; Zuber, P.; Yamane, K. Nucleic Acids Res. 21, 93-97, 1993 A; Title: Nucleotide sequence of 5' portion of multifunctional peptide synthetase genes using high A; Reference number: S35517; MUID:9318186; PMID:9441623 A; Accession: S35518 A; Status: significant sequence differences A; Molecule type: DNA A; Cross-references: EMBL:D11262; NID:g216345; PID:g216347 A; Experimental source: strain 168 trpC2 R; Borcher, S.; Patil, S.S.; Marhiel, M.A. FEMS Microbiol. Lett. 92, 175-180, 1992 A; Title: Identification of putative multifunctional peptide synthetase genes using high A; Reference number: S25658 A; Accession: S25658 A; Status: preliminary A; Molecule type: DNA C; Superfamily: surfactin synthetase; acetate-CoA ligase homology; acyl carrier protein A; Cross-references: antibiotic biosynthesis; carrier protein; duplication; ligase; phosphopantetheine F; 511-951/Domain: acetate-CoA ligase homology <ACPL1> F; 968-1035/Domain: acyl carrier protein homology <ACPL1> F; 1036-1149/Domain: repeat <RPT1> F; 11542-11995/Domain: acetate-CoA ligase homology <ACPL2> F; 2013-2081/Domain: acyl carrier protein homology <ACP2> F; 2082-2529/Domain: repeat <RPT2> F; 2591-3024/Domain: acetate-CoA ligase homology <ACL3> F; 3041-3108/Domain: acyl carrier protein homology <ACP3> F; 999-2045,3073/Binding site: phosphopantetheine (Ser) (covalent) #status predicted
Query Match	8.9%; Score 87.5; DB 2; Length 3587;
Best Local Similarity	8.9%; Pred. No. 81;
Matches	24.7%; Mismatches 53; Conservative 23; Indels 70; Gaps 11;
Qy	3 CASPV-AVVAFCAGL-----VSHPVLTQGQ-EAGGRPG-----ADCEVC 40
Db	793 CLOPIGAPGELCYGGIGVARYGNNLPELTKEQFLDPEFREGERTYRTGDLARWLFDGNI- 851
Qy	41 KEPLNRFVKSLLDRGVNLSDTIEKL-----ISFLCDTRKRNLCYLGATKDA 91
Db	852 -EFLGRIDNQVKRGFRIELGEIETKLMAEHVTEAVIIRKNAKDENLCAYFTADREV 910
Qy	92 ATXILSEYTRPMSVHMPAMKICKEKLLQDQICELKYBKTLDIASVDLRKMRVAFELKQIL 151
Db	911 A---VSEIRKTLSQLSPDMVPAHLIQMDS-----LPLTPNGKINKCCLP--- 952
Qy	152 HSWGEECRACAAEKTDYVNLQIELAPKYAATHPKTE 186
Db	953 -----APPOSEAV-----PEYAA-----PKTE 969

RESULT 14

Db 388 THLM---METSQHGALKEN---YPLDDGAYMVKVLIINMVR-NRLSGGSEGGNLIDBLE 440
 A; Molecule type: nucleic acid
 A; Residues: 124-463 <LI2>
 A; Cross-references: UNIPARC:UPI0000004E6; GB:S62932; NID:9386368; PIDN:AAB27245.1; PID
 A; Experimental source: C57BL/10J, skeletal muscle
 A; Note: sequence extracted from NCBI backbone (NCBIN:134227, NCBI:134228)
 C; Superfamily: retinoic acid receptor alpha; erbA transforming protein homology
 C; Keywords: zinc finger
 F:137-379/Domain: erbA transforming protein homology <ERBA>

Query Match 8.4%; Score 83; DB 2; Length 463;
 Best Local Similarity 21.3%; Pred. No. 19;
 Matches 37; Conservative 21; Mismatches 60; Indels 56; Gaps 6;

Qy 15 GLIVSHPVLTQGQAGGRGA--DCEVCKEFLNRFYKSLIDRGVNFSLDTIEKELISFCL 72
 Db 132 GSLVHKHICATGDRSSGKHGYVSCEGKGFFKR-----TIRKDLIVTC- 175
 Qy 73 DTGKRENRLCYLGATKDAATKILSEVTRPMVHMPAMKICEKLKLDQICELKYKETL 132
 Db 176 ---RDNKDC-----LIDKRQRNRQYC--RYQCL 200
 Qy 133 DLASVDLRLKMRVAVLKQILHSMGTECRACAEKTDYVNLIQELAPKYAATHPKTE 186
 Db 201 VMG---MCREAVQEBRQSRERAESEAECASSHEDMPVERILEAELAVEPKTE 251

Search completed: December 13, 2005, 03:10:38
 Job time : 40 secs

RESULT 15

Db 113 DCEVCKEFLNRFYKSLIDRGVNFSLDTIEKELISFCL 72
 A; Residues: 1-463 <MAN>
 A; Cross-references: UNIPROT:P28705; UNIPARC:UPI000014789B; EMBL:X66225; NID:954025; PIDN
 C; Superfamily: retinoic acid receptor alpha; erbA transforming protein homology
 C; Keywords: zinc finger
 F:137-379/Domain: erbA transforming protein homology <ERBA>

Query Match 8.4%; Score 83; DB 2; Length 463;
 Best Local Similarity 21.3%; Pred. No. 19;
 Matches 37; Conservative 21; Mismatches 60; Indels 56; Gaps 6;

Qy 15 GLIVSHPVLTQGQAGGRGA--DCEVCKEFLNRFYKSLIDRGVNFSLDTIEKELISFCL 72
 Db 132 GSLVHKHICATGDRSSGKHGYVSCEGKGFFKR-----TIRKDLIVTC- 175
 Qy 73 DTGKRENRLCYLGATKDAATKILSEVTRPMVHMPAMKICEKLKLDQICELKYKETL 132
 Db 176 ---RDNKDC-----LIDKRQRNRQYC--RYQCL 200
 Qy 133 DLASVDLRLKMRVAVLKQILHSMGTECRACAEKTDYVNLIQELAPKYAATHPKTE 186
 Db 201 VMG---MCREAVQEBRQSRERAESEAECASSHEDMPVERILEAELAVEPKTE 251.

Search completed: December 13, 2005, 03:10:38
 Job time : 40 secs

RESULT 15

Db 113 DCEVCKEFLNRFYKSLIDRGVNFSLDTIEKELISFCL 72
 A; Residues: 1-463 <LEI>
 A; Cross-references: UNIPROT:P28705; UNIPARC:UPI000028D9F; GB:M84819; NID:9200881; PIDN
 A; Experimental source: Liver
 A; Note: sequence extracted from NCBI backbone (NCBIN:77550)
 R; Liu, Q.; Linney, E.
 Mol. Endocrinol. 7, 651-658, 1993
 A; Status: nucleic acid sequence not shown
 A; Molecule type: mRNA
 A; Residues: 1-463 <LIU>
 A; Status: preliminary
 A; Molecule type: nucleic acid
 A; Residues: 1-463 <LIU>
 A; Cross-references: UNIPARC:UPI0000028D9F; GB:S62948; NID:9386366; PIDN:AAB27244.1; PID
 A; Experimental source: C57BL/10J, skeletal muscle
 A; Note: sequence extracted from NCBI backbone (NCBIN:134225, NCBI:134226)
 A; Accession: B40702
 A; Status: preliminary

Result No.	Score	Query	Match	Length	DB	ID	Description
1	101	10.3	507	2	US-09-091-097-10	Sequence 10, Appl	
2	101	10.3	507	2	US-10-109-670-12	Sequence 12, Appl	
3	93	9.5	507	2	US-09-091-097-34	Sequence 34, Appl	
4	93	9.5	507	2	US-10-109-670-34	Sequence 34, Appl	
5	90.5	9.2	1027	2	US-09-162-724-8	Sequence 8, Appl	
6	89.5	9.1	1029	2	US-09-762-724-6	Sequence 6, Appl	
7	89	9.1	322	1	US-09-489-039A-8442	Sequence 8442, Appl	
8	89	9.1	498	1	US-08-457-724A-24	Sequence 24, Appl	
9	89	9.1	498	4	PCT-US95-03758-24	Sequence 24, Appl	
10	84.5	8.6	523	1	US-08-232-513A-3	Sequence 24, Appl	
11	83.5	8.5	450	2	US-10-104-047-2339	Sequence 2139, Appl	
12	83	8.4	455	2	US-09-038-217A-18	Sequence 18, Appl	
13	83	8.4	455	2	US-09-447-034-18	Sequence 18, Appl	
14	83	8.4	463	1	US-08-136-088B-6	Sequence 6, Appl	
15	83	8.4	463	2	US-08-216-592A-8	Sequence 8, Appl	
16	83	8.4	463	4	PCT-US91-00399-6	Sequence 6, Appl	
17	82.5	8.4	617	2	US-09-489-039A-14321	Sequence 14321, Appl	
18	81.5	8.3	472	2	US-09-166-350-17	Sequence 17, Appl	
19	80.5	8.2	963	2	US-09-394-272-12	Sequence 12, Appl	
20	80.5	8.2	963	2	US-09-394-272-13	Sequence 13, Appl	
21	80	8.1	719	2	US-09-641-741-28	Sequence 28, Appl	
22	80	8.1	1128	1	US-08-111-939-2	Sequence 2, Appl	
23	80	8.1	1128	2	US-09-641-741-30	Sequence 30, Appl	
24	80	8.1	1128	2	US-09-066-882-8	Sequence 8, Appl	
25	79	8.1	368	1	US-09-949-016-6301	Sequence 6301, Appl	
26	79.5	8.1	373	2	US-09-949-016-7535	Sequence 7535, Appl	
27	79.5	8.1	523	1	US-08-100-247-2	Sequence 2, Appl	

Matches 45; Conservative 29; Mismatches 67; Indels 28; Gaps 7; Query 27 QEAAGRPGADCEVCKEFLNRFYKSLIDR GVNSLDT---IEKELISFCLDTKGENRL 81
 Db 246 QEAIGGPGLDSEVQQF----KELLEROGIHFKLGTGKNGKTVTRATEGKODKE 300
 Query 82 CYLGLATKDAATKILSETRPMSVHMPAMKICEKLKLDSQICLBYKEXTLD---LASV 137
 Db 301 QDY----DANVVLVSIGRPPVTKGLNLAIGVLDKGGRVVVDEFNTTCKGVKCGIDA 355

RESULT 2
 US-10-109-670-12
 ; Sequence 12, Application US/10109670
 ; SEQ ID NO 12
 ; GENERAL INFORMATION:
 ; APPLICANT: TAKESAKO, KAZUTOH et al.
 ; TITLE OF INVENTION: ANTIgenic PROTEIN ORIGINATING IN MALASSEZIA
 ; FILE REFERENCE: 1422-0523P
 ; CURRENT APPLICATION NUMBER: US/10/109,670
 ; CURRENT FILING DATE: 2002-04-01
 ; NUMBER OF SEQ ID NOS: 58

Query Match 10.3%; Score 101; DB 2; Length 507;
 Best Local Similarity 26.6%; Pred. No. 0.012;
 Matches 45; Conservative 29; Mismatches 67; Indels 28; Gaps 7;
 Length: 507
 Type: PRT
 Organism: Malassezia furfur
 US-10-109-670-12

Query Match 10.3%; Score 101; DB 2; Length 507;
 Best Local Similarity 26.6%; Pred. No. 0.012;
 Matches 45; Conservative 29; Mismatches 67; Indels 28; Gaps 7;
 Length: 507
 Type: PRT
 Organism: Malassezia furfur
 US-10-109-670-12

Query 27 QEAAGRPGADCEVCKEFLNRFYKSLIDR GVNSLDT---IEKELISFCLDTKGENRL 81
 Db 246 QEAIGGPGLDSEVQQF----KELLEROGIHFKLGTGKNGKTVTRATEGKODKE 300
 Query 82 CYLGLATKDAATKILSETRPMSVHMPAMKICEKLKLDSQICLBYKEXTLD---LASV 137
 Db 301 QDY----DANVVLVSIGRPPVTKGLNLAIGVLDKGGRVVVDEFNTTCKGVKCGIDA 355

RESULT 3
 US-09-091-097-34
 ; Sequence 34, Application US/09091097
 ; Patent No. 6432407
 ; GENERAL INFORMATION:
 ; APPLICANT: TAKESAKO, KAZUTOH
 ; APPLICANT: OKADO, TAKASHI
 ; APPLICANT: YAGIHARA, TOMOKO
 ; APPLICANT: KURODA, MASANOBU
 ; APPLICANT: ONISHI, YOSHIMI
 ; APPLICANT: KATO, IKUNOSHIN
 ; APPLICANT: AKIYAMA, KAZUO
 ; APPLICANT: YASUEDA, HIROSHI
 ; APPLICANT: YAMAGUCHI, HIDEYU
 ; TITLE OF INVENTION: ANTIgenic PROTEIN ORIGINATING IN
 ; TITLE OF INVENTION: MALASSEZIA
 ; NUMBER OF SEQUENCES: 58
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: BIRCH, STEWART, KOLASCH & BIRCH, LLP
 ; STREET: PO BOX 747
 ; CITY: FALLS CHURCH
 ; STATE: VA
 ; COUNTRY: USA
 ; ZIP: 22040-0747

Computer readable form:
 Medium type: Floppy disk
 Computer: IBM PC Compatible
 Operating system: PC-DOS/MS-DOS
 Software: Patent in Release #1.0, Version #1.30
 Current Application Data:
 Application Number: US/09/091,097
 Filing Date:
 Classification: 424
 Attorney/Agent Information:
 Name: WEINER, MARC S.
 Registration Number: 32,181
 Reference/Doctet Number: 1422-0346P
 Telecommunication Information:
 Telephone: 703-205-8000
 Telefax: 703-205-8050
 Information for Seq ID No: 34:
 Sequence Characteristics:
 Length: 507 amino acids
 Type: amino acid
 Topology: linear
 Molecule type: protein
 US-09-091-097-34

Query Match 9.5%; Score 93; DB 2; Length 507;
 Best Local Similarity 25.4%; Prod. No. 0.096;
 Matches 43; Conservative 30; Mismatches 68; Indels 28; Gaps 7;
 Qy 27 QEAAGRPGADCEVCKEFLNRFYKSLIDR-GVNSLDT---IEKELISFCLDTKGENRL 81
 Db 246 QDAIGGPGLDSEVQQF----KLLEROGIHFKLGTGKNGKTVTRATEGKODKE 300

Query Match 9.5%; Score 93; DB 2; Length 507;
 Best Local Similarity 25.4%; Prod. No. 0.096;
 Matches 43; Conservative 30; Mismatches 68; Indels 28; Gaps 7;
 Qy 82 CYLGLATKDAATKILSETRPMSVHMPAMKICEKLKLDSQICLBYKEXTLD---LASV 137
 Db 301 QDY----DANVVLVSIGRPPVTKGLNLAIGVLDKGGRVVVDEFNTTCKGVKCGIDA 355

Query Match 9.5%; Score 93; DB 2; Length 507;
 Best Local Similarity 25.4%; Prod. No. 0.096;
 Matches 43; Conservative 30; Mismatches 68; Indels 28; Gaps 7;
 Qy 138 DLRKMRVAELKQIILHSWGECCRACE-KTDYVNLQIQLAPKYAATHPK 184
 Db 356 TFGPM-----LAHKADEGIAVAEMLATGYHVNVDIPAVITYHPE 397

RESULT 4
 US-10-109-670-34
 ; Sequence 34, Application US/10109670
 ; Patent No. 6911208
 ; GENERAL INFORMATION:
 ; APPLICANT: TAKESAKO, KAZUTOH et al.
 ; TITLE OF INVENTION: ANTIgenic PROTEIN ORIGINATING IN MALASSEZIA
 ; FILE REFERENCE: 1422-0523P
 ; CURRENT APPLICATION NUMBER: US/10/109,670
 ; CURRENT FILING DATE: 2002-04-01
 ; NUMBER OF SEQ ID NOS: 58
 ; SEQ ID NO 34
 ; LENGTH: 507
 ; TYPE: PRT
 ; ORGANISM: Malassezia furfur
 ; US-10-109-670-34

Query Match 9.5%; Score 93; DB 2; Length 507;
 Best Local Similarity 25.4%; Prod. No. 0.096;
 Matches 43; Conservative 30; Mismatches 68; Indels 28; Gaps 7;
 Qy 27 QEAAGRPGADCEVCKEFLNRFYKSLIDR-GVNSLDT---IEKELISFCLDTKGENRL 81
 Db 246 QDAIGGPGLDSEVQQF----KLLEROGIHFKLGTGKNGKTVTRATEGKODKE 300

Query Match 9.5%; Score 93; DB 2; Length 507;
 Best Local Similarity 25.4%; Prod. No. 0.096;
 Matches 43; Conservative 30; Mismatches 68; Indels 28; Gaps 7;
 Qy 82 CYLGLATKDAATKILSETRPMSVHMPAMKICEKLKLDSQICLBYKEXTLD---LASV 137
 Db 301 QDY----DANVVLVSIGRPPVTKGLNLAIGVLDKGGRVVVDEFNTTCKGVKCGIDA 355

Query Match 9.5%; Score 93; DB 2; Length 507;
 Best Local Similarity 25.4%; Prod. No. 0.096;
 Matches 43; Conservative 30; Mismatches 68; Indels 28; Gaps 7;
 Qy 138 DLRKMRVAELKQIILHSWGECCRACE-KTDYVNLQIQLAPKYAATHPK 184
 Db 356 TFGPM-----LAHKADEGIAVAEMLATGYHVNVDIPAVITYHPE 397

RESULT 5
 US-09-762-724-8
 Sequence 8, Application US/09762724
 Patent No. 6664053
 GENERAL INFORMATION:
 APPLICANT: Kovacs, et al.
 TITLE OF INVENTION: Identification of a region of the major surface
 FILE REFERENCE: 4239-58054
 CURRENT APPLICATION NUMBER: US/09/762,724
 CURRENT FILING DATE: 2001-02-09
 PRIOR APPLICATION NUMBER: PCT/US99/18750
 PRIOR FILING DATE: 1999-08-17
 NUMBER OF SEQ ID NOS: 26
 SOFTWARE: PatentIn Ver. 2.0
 SEQ ID NO: 8
 LENGTH: 1027
 TYPE: PRT
 ORGANISM: Pneumocystis carinii sp. f. hominis
 US-09-762-724-8

Query Match 9.2%; Score 90.5%; DB 2; Length 1027;
 Best Local Similarity 25.9%; Pred. No. 0.48; Mismatches 56; Indels 43; Gaps 8;
 Matches 43; Conservative 24; Mismatches 56; Indels 43; Gaps 8;

Qy 34 GADCEVCKEFLNRFYKSLIDRGVNFSLDTIEKELISF-----CLDTKGKENRLCY- 83
 Db 30 GLEDTKCKTKEEYCKTLLNAGLN--PEVKHEKLDKFCNDGKRNEKQDQDLKVNQKCTK 87

Qy 84 YLGATKDAATKILSEVTRPMSVHMPAMKICEKLLKLDSQICELKYEKTLDLASVDRKMR 143
 Db 88 FGQKLQTAARKKISELTD-----EDCKRNEQQCLFLEGACPTLKED-DCNKLRR 134

Qy 144 -----VAE-LKQILHSGWGEFCAEAKTDVNLQELAPK 177
 Db 135 NNCYQKERNNVAEVLLRALRGDNETKTCERKK----LKEVCPK 174

RESULT 6
 US-09-762-724-6
 Sequence 6, Application US/09762724
 Patent No. 6664053
 GENERAL INFORMATION:
 APPLICANT: Kovacs, et al.
 TITLE OF INVENTION: Identification of a region of the major surface
 FILE REFERENCE: 4239-58054
 CURRENT APPLICATION NUMBER: US/09/762,724
 CURRENT FILING DATE: 2001-02-09
 PRIOR APPLICATION NUMBER: PCT/US99/18750
 PRIOR FILING DATE: 1999-08-17
 PRIOR APPLICATION NUMBER: US 60/096, 805
 PRIOR FILING DATE: 1998-08-17
 NUMBER OF SEQ ID NOS: 26
 SOFTWARE: PatentIn Ver. 2.0
 SEQ ID NO: 6
 LENGTH: 1029
 TYPE: PRT
 ORGANISM: Pneumocystis carinii sp. f. hominis
 US-09-762-724-6

Query Match 9.1%; Score 89.5%; DB 2; Length 1029;
 Best Local Similarity 25.9%; Pred. No. 0.63; Mismatches 56; Indels 43; Gaps 8;

Qy 34 GADCEVCKEFLNRFYKSLIDRGVNFSLDTIEKELISF-----CLDTKGKENRLCY- 83
 Db 30 GLEDTKCKTKEEYCKTLLNAGLN--PEVKHEKLDKFCNDGKRNEKQDQDLKVNQKCTK 87

Qy 84 YLGATKDAATKILSEVTRPMSVHMPAMKICEKLLKLDSQICELKYEKTLDLASVDRKMR 143
 Db 88 FGQKLQTAARKKISELTD-----EDCKRNEQQCLFLEGACPTLKED-DCNKLRR 134

Qy 144 -----VAE-LKQILHSGWGEFCAEAKTDVNLQELAPK 177
 Db 135 NNCYQKERNNVAEVLLRALRGDNETKTCERKK----LKEVCPK 174

RESULT 7
 US-09-489-039A-8442
 Sequence 8442, Application US/09489039A
 Patent No. 6610836
 GENERAL INFORMATION:
 APPLICANT: Gary Bretton, et al.
 TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
 FILE REFERENCE: 2709 2004001
 CURRENT APPLICATION NUMBER: US/09/489,039A
 CURRENT FILING DATE: 2000-01-27
 PRIORITY APPLICATION NUMBER: US 60/117,747
 PRIORITY FILING DATE: 1999-01-29
 NUMBER OF SEQ ID NOS: 14342
 SEQ ID NO: 8442
 LENGTH: 322
 TYPE: PRT
 ORGANISM: Klebsiella pneumoniae
 US-09-489-039A-8442

Query Match 9.1%; Score 89; DB 2; Length 322;
 Best Local Similarity 25.1%; Pred. No. 0.15; Mismatches 71; Indels 36; Gaps 8;
 Matches 43; Conservative 21; Mismatches 71; Indels 36; Gaps 8;

Qy 2 WCASPVAVAFCAGLVSHPVLTQOAGGRGADCVEKBF-LNRFYKSLIDRVNFSL 60
 Db 75 WQYSPINSIA-----VHHAHTLTSLEP-----QDVEIVVTLPLTEFY----DEDAQYRL 119

Qy 61 DTIEKELISFCLDTKGKENRLCYLGATKDAATKILSEVTRPMSVHMPA-MKICCEKLKKL 119
 Db 120 DNIEKKKSLLRDK-----LNKGUVFNTKTVTPES----PAGISLCDLKP 166

Qy 120 DSQICELKYEKTLDLASVDRKMRVAELQIHLHSGWEECRACAKTDVNL 170
 Db 167 HSVLIDLGSTTLDSMV-----AGQMTSVSRLYGDPKLGVSIVTDAVKL 211

RESULT 8
 US-08-457-274A-24
 Sequence 24, Application US/08457274A
 Patent No. 5734086
 GENERAL INFORMATION:
 APPLICANT: Scott, Jeffrey G.
 APPLICANT: Tomita, Tatsushi
 TITLE OF INVENTION: Cytochrome P4501pr Gene and Its Uses
 NUMBER OF SEQUENCES: 29
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Nixon, Hargrave, Devans & Doyle
 STREET: P.O. Box 1051, Clinton Square
 CITY: Rochester
 STATE: New York
 COUNTRY: USA
 ZIP: 14603
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/457,274A
 FILING DATE:
 CLASSIFICATION: 800
 ATTORNEY/AGENT INFORMATION:
 NAME: Goldman, Michael L.

REGISTRATION NUMBER: 30,727
 REFERENCE/DOCKET NUMBER: 19603/240 (D-1519)
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 716-263-1304
 TELEFAX: 716-263-1600
 INFORMATION FOR SEQ ID NO: 24:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 498 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 ORIGINAL SOURCE:
 STRAIN:
 DEVELOPMENTAL STAGE: Adult
 POSITION IN GENOME:
 CHROMOSOME/SEGMENT:
 US-08-437-27A-24

Query Match 9.1%; Score 89; DB 1; Length 498;
 Best Local Similarity 21.5%; Pred. No. 0.27; Mismatches 65; Indels 62; Gaps 6;
 Matches 42; Conservative 25; MisMatches 66; Indels 62; Gaps 6;

Query Match 9.1%; Score 89; DB 1; Length 498;
 Best Local Similarity 21.5%; Pred. No. 0.27; Mismatches 65; Indels 62; Gaps 6;
 Matches 42; Conservative 25; MisMatches 66; Indels 62; Gaps 6;

Query 36 DCEVCKEFLNRFYKSLIDRGYNFSLDTEKELISFLCD-----
 Db 84 DLDLKHVLKDFESFDAGVEFLSDFGKANIFHADGDRWRSLRNRFPLFTSCKLKSML 143
 Query 83 YYLGATDKDAATKILSEV--TRP-MSVNPMAMK-----
 Db 144 PLMSQVGDRFINSQTQDEVSQTQPESSINHLYQKFTMTNIAACVFGLNLDGMLKTLDEDL DK 203
 Query 122 QICELKYKETKLDLASVDLRK-----
 Db 144 PLMSQVGDRFINSQTQPESSINHLYQKFTMTNIAACVFGLNLDGMLKTLDEDL DK 203
 Query 122 QICELKYKETKLDLASVDLRK-----
 Db 144 PLMSQVGDRFINSQTQPESSINHLYQKFTMTNIAACVFGLNLDGMLKTLDEDL DK 203
 Query 163 EKTDYVNLQELAPK 177
 Db 204 HIFTVNSAELDMYMPGILKLLNGSLFFKVVSKPFDNLTKVNLLEMRKGTPSY----- 255
 Query 163 EKTDYVNLQELAPK 177
 Db 204 HIFTVNSAELDMYMPGILKLLNGSLFFKVVSKPFDNLTKVNLLEMRKGTPSY----- 255
 Query 163 EKTDYVNLQELAPK 177
 Db 256 -QKDMIDLQELREK 269

RESULT 10
 US-08-242-513A-3
 Sequence 3, Application US/08232513A
 ; Sequence 3, Application US/08232513A
 ; GENERAL INFORMATION:
 ; APPLICANT: O'Brien, John S.
 ; PATENT NO.: 570009
 ; TITLE OF INVENTION: Prostagasin and Cytokine-Derived Peptides
 ; NUMBER OF SEQUENCES: 20
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Campbell & Flores LLP
 ; STREET: 4370 La Jolla Village Drive, Suite 700
 ; CITY: San Diego
 ; STATE: California
 ; COUNTRY: USA
 ; ZIP: 92122
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/232,513A
 ; FILING DATE: 21-APR-1994
 ; CLASSIFICATION: 514
 ; PRIORITY APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/232,513A
 ; FILING DATE: 30-JUL-1993
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Campbell, Cathryn A.
 ; REGISTRATION NUMBER: 31,815
 ; REFERENCE/DOCKET NUMBER: P-UD 1643
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (619) 535-9001

RESULT 9
 PCT-US95-05758-24
 Sequence 24, Application PC/TUS9505758
 GENERAL INFORMATION:
 APPLICANT: Cornell Research Foundation, Inc.
 TITLE OF INVENTION: Cytochrome P450pr Gene and Its
 TITLE OF INVENTION: Uses
 NUMBER OF SEQUENCES: 29
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Nixon, Hargrave, Devans & Doyle
 STREET: P.O. Box 1051, Clinton Square
 CITY: Rochester
 STATE: New York
 COUNTRY: USA
 ZIP: 14603
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: PCT/US95/05758
 FILING DATE:
 CLASSIFICATION:
 ATTORNEY/AGENT INFORMATION:
 NAME: Goldman, Michael L.
 REGISTRATION NUMBER: 30,727
 REFERENCE/DOCKET NUMBER: 19603/241 (D-1519)
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 716-263-1304

RESULT 12
 US-09-038-217A-18
 ; Sequence 18, Application US/09038217A
 ; Patent No. 6025196
 ; GENERAL INFORMATION:
 ; APPLICANT: Sladek, Frances M.
 ; APPLICANT: Zhong, Weimin
 ; APPLICANT: Darnell, Jr., James F.
 ; TITLE OF INVENTION: LIVER ENRICHED TRANSCRIPTION FACTOR
 ; NUMBER OF SEQUENCES: 18
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: David A. Jackson, Esq.
 ; STREET: 411 Hackensack Ave, Continental Plaza, 4th
 ; STREET: Floor
 ; CITY: Hackensack
 ; STATE: New Jersey
 ; COUNTRY: USA
 ; ZIP: 07601
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/038,217A
 ; FILING DATE: March 11, 1998
 ; CLASSIFICATION: 435
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Jackson Esq., David A.
 ; REGISTRATION NUMBER: 26,742
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 201-487-5800
 ; TELEFAX: 201-343-1684
 ; INFORMATION FOR SEQ ID NO: 18:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 455 amino acids
 ; TYPE: amino acids
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; DESCRIPTION: /desc = "Amino Acids"
 ; HYPOTHETICAL: YES
 ; US-09-038-217A-18

Query Match 8.6%; Score 84.5; DB 1; Length 523;
 Best Local Similarity 18.9%; Pred. No. 0.91; Mismatches 60; Indels 77; Gaps 9;
 Matches 39; Conservative 30; Mismatches 60; Indels 77; Gaps 9;

Qy 1 MWC-----ASPVAVVAFCAGLLVSHPVLTQGAEAGGRGADEVCKFLNRFYKSLIDRG 55
 Db 31 VWCQNTVKTASDGAVKHCLQTVWNKPPV-----KSLPEDIKDVVTAAQGDMIRDNA 81

Qy 56 VNFSLDTIETKEELISFLDTKGKENRLCYYLGATKDATAK----- 94
 Db 82 T-----EEETIILVLYGKTCIDWLPKPNMSASCKEIVDSYLPVLDI 120

Qy 95 ILSEVTRPMSVEMPAMKICEKLUKLDSQICELKYEKLID---LASVYLRKM---RVALK 148
 Db 121 IKGEMSRPGEV-CSALNICESIQQK--HLAELNHQKOLESENKIPELDMTEVAPFMANIP 176

Qy 149 QILHWSW-----GEECRACAE 163
 Db 177 LULYPODGPRSKPKQPKDQCDIQ 202

RESULT 11
 US-10-104-047-2139
 ; Sequence 2139, Application US/10104047
 ; GENERAL INFORMATION:
 ; APPLICANT: HELIX RESEARCH INSTITUTE
 ; TITLE OF INVENTION: No. 6943241 full length cDNA
 ; FILE REFERENCE: H1-A0105
 ; CURRENT APPLICATION NUMBER: US/10/104,047
 ; CURRENT FILING DATE: 2002-03-25
 ; PRIOR APPLICATION NUMBER:
 ; PRIORITY FILING DATE:
 ; NUMBER OF SEQ ID NOS: 4096
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO: 2139
 ; LENGTH: 450
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-10-104-047-2139

Query Match 8.5%; Score 83.5; DB 2; Length 450;
 Best Local Similarity 20.8%; Pred. No. 0.96; Mismatches 25; Indels 63; Gaps 7;

Qy 2 WCA-----PVAVVAFCAGLL-----VSHPVLTQGQ-----EAGRPGA 35
 Db 222 WCISLUDCYTRIGGCSFTGSLEYAADISYPVRKETKDTFRNKPKLHNEDAREPMA 281

Qy 36 DCEVCKEFLNRFYKSLIDRGYNFSLDTIEKELISFLDTKGKENRLCYYLGATK---- 89
 Db 282 VTSQTKM--SFQKILPDR-MKAARDRANKNLVDFIVNAKGTEENLLATVNGTKSRWLK 338

Qy 90 -----DAATKILSEVTRPMSVHMPKICLKLL-----DS 121
 Db 339 SFLNANRFTPCITYFBDEDOLDEVKYLOPVCNQDQMPTWIDKCKFILEVLPPEA 398

Qy 122 QICELKYEKTLDLASVYLRKMR 143
 Db 399 IICISAVDGLDYBAAEAKYLIK 420

RESULT 13
 US-09-447-034-18
 ; Sequence 18, Application US/09447034
 ; Patent No. 6500672
 ; GENERAL INFORMATION:
 ; APPLICANT: Sladek, Frances M.

Zhong, Weimin, Jr., James F.
 TITLE OF INVENTION: LIVER ENRICHED TRANSCRIPTION FACTOR
 NUMBER OF SEQUENCES: 18
 CORRESPONDENCE ADDRESS:
 ADDRESSEES: David A. Jackson, Esq.
 STREET: 411 Hackensack Ave., Continental Plaza, 4th
 Floor
 CITY: Hackensack
 STATE: New Jersey
 COUNTRY: USA
 ZIP: 07601

COMPUTER READABLE FORM:
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25

APPLICATION NUMBER: US/09/447,034
 FILING DATE: 22-NO-6500672-1999
 CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/09/038,217
 FILING DATE: March 11, 1998

ATTORNEY/AGENT INFORMATION:
 NAME: Jackson Esq., David A.
 REGISTRATION NUMBER: 26,742
 REFERENCE/DOCKET NUMBER: 600-1-030B

TELECOMMUNICATION INFORMATION:
 TELEPHONE: 201-487-5800
 TELEFAX: 201-443-1644

INFORMATION FOR SEQ ID NO: 18:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 455 amino acids
 TYPE: amino acids
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 DESCRIPTION: /desc = "Amino Acids"
 HYPOTHETICAL: YES
 SEQUENCE DESCRIPTION: SEQ ID NO: 18:
 US-09-0447-034-18

Query Match 8.4%; Score 83; DB 2; Length 455;
 Best Local Similarity 21.5%; Pred. No. 1.1;
 Matches 40; Conservative 27; Mismatches 79; Indels 40; Gaps 8;

Qy 4 ASPYAVAVFAGGLIVSHPVLTQGEGAGR--PGADCEVCKEFLNRFYKSLIDRGNFSD 61
 Db 42 SNSLGVSALCA-----ICGDRATGHYGASSCDGCKGFFRSVRKHMYSCRFSRQ 92

Qy 62 TIEKELLSQCDTNGKEN-----RLCYYLGATKDAIKLSEV-TRPMS---VHMPAM 110
 Db 93 -----CVDVDKDRNQCRYCRALKCPFRGMKEAVONERDISTRASSYEDISLSI 143

Qy 111 KICEKLKLDQSICBLKYKETLDLASV- DLRKMRVAELKQILHSGEECRACAKTDYV 168
 Db 144 NALQQAELVSQI-----TSPISGNGDIRAKRIASITDVCSMKEQILVLEWARYI 196

RESULT 14
 US-08-336-4-08B-6
 Sequence 6, Application US/08336408B
 Patent No. 5723329

GENERAL INFORMATION:
 APPLICANT: EVANS, RONALD M.
 APPLICANT: MANGELSDORF, DAVID J.
 TITLE OF INVENTION: REPTINOID RECEPTOR COMPOSITIONS AND
 TITLE OF INVENTION: METHODS
 NUMBER OF SEQUENCES: 7

CORRESPONDENCE ADDRESS: PRETTY, SCHROEDER, BRUEGGEMANN & CLARK
 ADDRESSER: STREET: 444 SOUTH FLOWER STREET, SUITE 2000
 CITY: LOS ANGELES
 STATE: CA
 COUNTRY: USA
 ZIP: 90071

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/336,408B
 FILING DATE: 08-NOV-1994
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/933,453
 FILING DATE: 21-AUG-1992
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: IWO PCT/US91/00399
 FILING DATE: 22-JAN-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/478,071
 FILING DATE: 09-FEB-1990
 ATTORNEY/AGENT INFORMATION:
 NAME: RETTER, STEPHEN E.
 REGISTRATION NUMBER: 31,192
 REFERENCE/DOCKET NUMBER: P41 9851
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 619-546-9395
 TELEFAX: 619-546-9392
 INFORMATION FOR SEQ ID NO: 6:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 463 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-336-4-08B-6

Query Match 8.4%; Score 83; DB 1; Length 463;
 Best Local Similarity 21.3%; Pred. No. 1.1;
 Matches 37; Conservative 21; Mismatches 60; Indels 56; Gaps 6;

Qy 15 GLIVSHPVLTQGEGAGRGPGA--DCEVCKEFLNRFYKSLIDRGNFSDTIEKELISPL 72
 Db 132 GSLVHKCAICGDRSSGHHGYSCEGCKGFFKR-----TIRKDLIVTC- 175
 Qy 73 DTKGKENRLCYYLGATKDAIKLSEVTRPMSVHMPAMKICEKLKLDQSICBLKYKETL 132
 Db 176 -----RDNKDC-----LIDKRQRNRQYC--RYQKCL 200
 ; GENERAL INFORMATION:
 ; APPLICANT: LEID, MARK
 ; APPLICANT: MASTNER, PHILIPPE
 ; APPLICANT: CHAMBON, PIERRE
 ; TITLE OF INVENTION: NOVEL HETERO DIMERIC STEROID RECEPTOR
 ; TITLE OF INVENTION: PROTEINS, GENES ENCODING SAME, AND USAGE THEREOF
 ; NUMBER OF SEQUENCES: 29
 ; CORRESPONDENCE ADDRESS: STEENE, KESSLER, Goldstein & Fox
 ; ADDRESSER: STEENE, KESSLER, Goldstein & Fox
 ; STREET: 1100 New York Avenue NW Suite 600
 ; CITY: Washington
 ; STATE: D.C.

COUNTRY: USA
 ZIP: 20005
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/216,592A
 FILING DATE: 23-MAR-1994
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/825,667
 FILING DATE: 24-JAN-1992
 ATTORNEY/AGENT INFORMATION:
 NAME: GOLDSSTEIN, JORGE A
 REGISTRATION NUMBER: 29,021
 REGISTRATION/DOCKET NUMBER: 1383.0060002
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202) 371-2600
 TELEFAX: (202) 371-2540
 INFORMATION FOR SEQ ID NO: 8:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 463 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08/216,592A-8

Query Match 8.4%; Score 83; DB 2; Length 463;

Best Local Similarity 21.3%; Pred. No. 1.1; Mismatches 60; Indels 56; Gaps 6;
 Matches 37; Conservative 21; MisMatches 60; Indels 56; Gaps 6;

Qy	15	GLLVSPVLTGQEAQGRGAA- DCEVCKEFLNRFYFKSLIDRGVNFSLDTEKEIJFPL 72
Db	132	GSLVKHICAIKGDRSSKGKHGVYSCGCKGFKR --- -TIRKDJYTC- 175
Qy	73	DTKGKBNRLCYYLGATKDAATKILSEVTRPMSVHMPAMKICBKLLDSQICELKVEKTL 132
Db	176	---RDKDC--- -LIDKRQRNRCCQYC- -RYQKCL 200
Qy	133	DLASVDLQRKRVAEIQLQIILHSWGEERCAEAKTDVNLIGELAPKYATHPKTE 186
Db	201	VMG--MKREAVQEEQRQRSRRAESAECAASSHEDMPVERILEAELAVEPKTE 251

Search completed: December 13, 2005, 03:11:29
 Job time : 47 secs

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CM protein - protein search, using sw model

Run on: December 13, 2005, 02:55:21 (without alignments)

Title: US-10-648-361-2

Perfect score: 983
Sequence: 1 MWCASPVAVVAFCAGLLVSH VNLQELAPKVAATHPKTEL 187

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2441163 seqs, 439378781 residues

Total number of hits satisfying chosen parameters: 2443163

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : A_Geneseq_21:*

1: Geneseqp1980s:*

2: Geneseqp1990s:*

3: Geneseqp2000s:*

4: Geneseqp2001s:*

5: Geneseqp2002s:*

6: Geneseqp2003as:*

7: Geneseqp2004as:*

8: Geneseqp2004s:*

9: Geneseqp2005s:*

9: Geneseqp2005s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	983	100.0	187 5 ADG79397	Adg79397 Human sec
2	983	100.0	187 5 ADG79397	Adg79397 Human sec
3	983	100.0	187 6 AAO26550	Aao26550 Human ch1
4	968	98.5	187 5 ABP69697	Abp69697 Human pol
5	968	98.5	187 8 ADM44585	Adm44585 Novel hum
6	968	98.5	187 8 ADS98795	Ads98795 Protein f
9	817	86.9	163 6 AAO26451	Aao26451 Human ch1
9	546	55.5	156 5 ADG79580	Adg79580 Human sec
10	538	55.7	179 6 ABB82558	Abb82558 Bovine pr
11	538	54.7	179 6 AAO26455	Aao26455 Human ch3
12	538	54.7	179 9 ADW28228	Adw28228 Amino aci
13	538	54.7	182 8 ADQ96544	Adq96544 T cell ac
14	538	54.7	234 6 AAE34881	Aae34881 Human ARP
15	538	54.7	234 8 ADQ96546	Adq96546 T cell ac
16	537	54.6	234 8 AAO26456	Aao26456 Protein f
17	537	54.6	179 4 ABB82252	Abb82252 Mouse arg
18	535	54.4	179 6 ABB82249	Abb82249 Human pro
19	535	54.4	234 6 ABB8234	Abb8234 Human arg
20	532.5	54.2	158 6 ABB82353	Abb82353 Mouse MAN
21	532.5	54.2	158 6 AAO26456	Aao26456 Human ch3
22	532.5	54.2	159 4 AAG86554	Abb86554 A synthet
23	532.5	54.2	198 4 AAG86520	Aag86520 Amino aci
24	532	54.1	179 4 AAB62159	Aab62159 Human arg

Human secreted protein of the invention SEQ ID NO:203.

XX

Human sapiens.

XX

Human sapiens.

XX

Human sapiens.

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Human sapiens.

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Human sapiens.

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Human sapiens.

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Human sapiens.

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Human sapiens.

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Human sapiens.

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Human sapiens.

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Human sapiens.

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Human sapiens.

XX

Human sapiens.

</

XX	WPI; 2003-040654/03.	PP	05-MAR-2002; 2002WO-US005095.
DR	DR N-PSDB; AAL53682.	XX	05-MAR-2001; 2001US-00799451.
XX	New isolated chromosome 10 arginine-rich protein related polypeptides, useful for detecting and/or monitoring and treating conditions involving aberrant expression of ARPR or uncontrolled growth of tissues, such as cancer.	XX	(HYSEQ INC.
PT	Claim 1; Fig 1; 82pp; English.	XX	Tang YT, Zhou P, Goodrich RW, Asundi V, Zhang J, Zhao QA, Ren F;
PT	CC	PI	Xue AJ, Yang Y, Ma Y, Yamazaki V, Chen R, Wang Z, Ghosh M;
PT	CC	PI	Wehrman T, Wang J, Wang D, Drmanac RT;
PT	CC	XX	WPI; 2002-75812/82.
PS	CC	DR	N-PSDB; ABZ1914.
PS	CC	DR	WPI; 2002-75812/82.
XX	CC	XX	New polynucleotides comprising sequences assembled from expressed PT sequences tags (ESTs), useful for treating cell-proliferative, PT neurodegenerative, autoimmune, genetic, myeloid or lymphoid, or platelet PT or coagulation disorders.
CC	CC	XX	Claim 9; SEQ ID NO 1744; 1012pp + Sequence Listing; English.
CC	CC	XX	The invention relates to an isolated polynucleotide (1) comprising a CC nucleotide sequence selected from any of 948 sequences (AB21119- CC ABZ12066) or their mature protein coding portion, active domain coding CC protein or complementary sequences. The polynucleotides are useful for CC identifying expressed genes or for physical mapping of human genome. The CC encoded polypeptides (ABP68902-ABP69849) are useful as molecular weight CC markers, as a food supplement, for generating antibodies, in medical CC imaging, screening and diagnostic assays and for treating cell- CC proliferative disorders (cancer), neurodegenerative diseases (Parkinson's CC or Alzheimer's disease), autoimmune diseases (multiple sclerosis, CC diabetes, lupus) genetic disorders, myeloid or lymphoid disorders, CC platelet or coagulation disorders, wound, burns, incision, ulcers, liver CC or lung fibrosis, infections (bacterial, viral, fungal, parasitic), CC arthritis, etc. Note: The sequence data for this patent did not form part CC of the printed specification, but was obtained in electronic format CC directly from WIPO at ftp://wipo.int/pub/published_pct_sequences
CC	CC	XX	Sequence 187 AA;
CC	CC	XX	Query Match 100.0%; Score 983; DB 6; Length 187; Best Local Similarity 100.0%; Pred. No. 6.4e-95; Matches 187; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
CC	CC	Db	1 MWCAASPVAVVFCAGLIVSHPVLTQGDEAGRPGADCEVCKEFLGRGKFLIDRGYNFSL 60
CC	CC	Db	1 MWCAASPVAVVFCAGLIVSHPVLTQGDEAGRPGADCEVCKEFLGRGKFLIDRGYNFSL 60
CC	CC	Qy	61 DTIEKELISFCFLDTKGKENRLCYLGATKDAATKILSEVTRPMSVHPAMKICEKLKLD 120
CC	CC	Db	61 DTIEKELISFCFLDTKGKENRLCYLGATKDAATKILSEVTRPMSVHPAMKICEKLKLD 120
CC	CC	Qy	121 SQICELKYEKTLIDLASVDLRKMRVAAELKQILHSGBECRACAETKDVNLJQELAPKYAA 180
CC	CC	Db	121 SQICELKYEKTLIDLASVDLRKMRVAAELKQILHSGBECRACAETKDVNLJQELAPKYAA 180
CC	CC	Qy	181 THPKTEL 187
CC	CC	Db	181 THPKTEL 187
CC	CC	Qy	RESULT 4
CC	CC	ID	ABP65697
CC	CC	AC	ABP65697 standard; protein: 187 AA.
CC	CC	AC	ABP65697;
CC	CC	DT	20-JAN-2003 (first entry)
CC	CC	DE	Human polypeptide SEQ ID NO 1744.
CC	CC	XX	Human; genome mapping; gene therapy; food supplement; virus; fungus; cell-proliferative disorder; neurodegenerative disease; bacterial; Parkinson's disease; Alzheimer's disease; autoimmune disease; multiple sclerosis; diabetes; genetic disorder; wound; burn; infection; arthritis; cytostatic; immunomodulator; nootropic; neuroprotective; antiparkinsonian; antidiabetic; immunosuppressive; dermatological; haemostatic; vulnerary; fungicide; antibacterial; viricide; protozoaide; antiarthritic.
CC	CC	XX	Human; genome mapping; gene therapy; food supplement; virus; fungus; cell-proliferative disorder; neurodegenerative disease; bacterial; Parkinson's disease; Alzheimer's disease; autoimmune disease; multiple sclerosis; diabetes; genetic disorder; wound; burn; infection; arthritis; cytostatic; immunomodulator; nootropic; neuroprotective; antiparkinsonian; antidiabetic; immunosuppressive; dermatological; haemostatic; vulnerary; fungicide; antibacterial; viricide; protozoaide; antiarthritic.
CC	CC	XX	Novel human arginine-rich protein-like polypeptide.
CC	CC	DE	RESULT 5
CC	CC	ID	ADM4585
CC	CC	AC	ADM4585 standard; protein: 187 AA.
CC	CC	AC	ADM4585;
CC	CC	DT	03-JUN-2004 (first entry)
CC	CC	OS	Novel human arginine-rich protein-like polypeptide.
CC	CC	OS	Human; arginine-rich protein; cancer; inflammation; genetic disorder.
CC	CC	OS	Homo sapiens.
CC	CC	PN	WO200270539-A2.
CC	CC	XX	XW
CC	CC	PD	12-SEP-2002.
CC	CC	XX	XW

XX XX WO2004087874-A2.
 PN PN
 XX XX 14-OCT-2004.
 PD PD
 XX XX 21-NOV-2002; 2002US-00302172.
 PP PP 24-MAR-2004; 2004WO-US009202.
 XX XX 05-MAR-2001; 2001US-00799451.
 PR PR 28-MAR-2003; 2003US-0458824P.
 XX XX (NVE-) NUVEO INC.
 PR PR (DRMA-) DRMANAC R T.
 PA PA
 PA (TANG/) TANG Y T.
 PA (XUEA/) XUE A.
 PA (DRMA/) DRMANAC R T.
 XX DR WPI; 2004-73768672.
 PI PI N-PSDB; ADS9455.
 XX XX
 DR DR New polynucleotides encoding a polypeptide with biological activity, useful for treating inflammation, leukemia, nervous system disorders, or infections.
 PR PT
 XX PI Tang YT, Zhou P, Wang J, Wang ZW, Hu T;
 XX XX Example 3; SEQ ID NO 1059; 253pp; English.
 PS PS
 XX XX The invention relates to a novel isolated polynucleotide comprising any sequence identity with the polynucleotide encoding a polypeptide with biological activity, where the polynucleotide hybridizes to one of the 235 novel polynucleotides under stringent hybridization conditions, or having greater than about 99% sequence identity with the novel polynucleotide; a vector comprising a novel polynucleotide; an expression vector comprising the novel polynucleotide; a host cell genetically engineered to comprise the novel polynucleotide, which can be operatively associated with a regulatory sequence that modulates expression of the polynucleotide in the host cell; an isolated polypeptide encoded by the novel polynucleotide, or a polynucleotide hybridizing under stringent conditions to the novel polynucleotide; a composition comprising the polypeptide and a carrier; an antibody directed against the polypeptide; a method for detecting the novel polynucleotide in a sample; a method for detecting the polypeptide in a sample; a method for identifying a compound that binds to the polypeptide; a method for producing the polypeptide; an isolated polypeptide comprising any of the 235 amino acid sequences described in the specification; and a collection of polynucleotides comprising at least one of the polynucleotides cited above. The polypeptides and polynucleotides of the invention have antiinflammatory, cytostatic, and antimicrobial activities. The novel polynucleotide may be used to treat disorders by gene therapy. The polypeptides and polynucleotides are useful for treating inflammation, leukemia, nervous system disorders, or infection. This sequence represents the polypeptide encoded by contiguous DNA derived from one of the 235 novel isolated polynucleotides of the invention.
 XX XX Sequence 187 AA;
 SQ SQ
 Query Match 98.5%; Score 968; DB 8; Length 187;
 Best Local Similarity 98.9%; Pred. No. 2.4e-93;
 Matches 185; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY QY 1 MWCAASPVAVVAPCAGLLVSHPVLTQVQZAGGRPOADCEVCKEFLNRFYKSLIDRGVNFSL 60
 Db Db 1 MWCAASPVAVVAPCAGLLVSHPVLTQVQZAGGRPOADCEVCKEFLNRFYKSLIDRGVNFSL 60
 QY QY 61 DTIEKELISFCLDTKGKENRLCYTIGATKDAATKILSEVTRPMSVHMPAMKICEKLLKD 120
 Db Db 61 DTIEKELISFCLDTKGKENRLCYTIGATKDAATKILSEVTRPMSVHMPAMKICEKLLKD 120
 QY QY 121 SQICBLKYKETKTLIDASVDIRKMRVVAELKQTLHSMEGECAKTDYVNLQELAPKAA 180
 Db Db 121 SQICBLKYKETKTLIDASVDIRKMRVVAELKQTLHSMEGECAKTDYVNLQELAPKAA 180
 QY QY 181 THPKTEL 187
 Db Db 181 THPKTEL 187
 RESULT 6
 ADS98795 ID ADS98795 standard; protein; 187 AA.
 XX AC
 XX DT 30-DEC-2004 (first entry)
 XX DE Protein Factor discovery related human contig polypeptide, SEQ ID 1059.
 XX KW antiinflammatory; cytostatic; antimicrobial; gene therapy; inflammation;
 KW leukaemia; nervous system disorder; infection.
 XX OS Homo sapiens.

QY QY 1 MWCAASPVAVVAPCAGLLVSHPVLTQVQZAGGRPOADCEVCKEFLNRFYKSLIDRGVNFSL 60
 Db Db 1 MWCAASPVAVVAPCAGLLVSHPVLTQVQZAGGRPOADCEVCKEFLNRFYKSLIDRGVNFSL 60
 QY QY 61 DTIEKELISFCLDTKGKENRLCYTIGATKDAATKILSEVTRPMSVHMPAMKICEKLLKD 120
 Db Db 61 DTIEKELISFCLDTKGKENRLCYTIGATKDAATKILSEVTRPMSVHMPAMKICEKLLKD 120
 QY QY 121 SQICBLKYKETKTLIDASVDIRKMRVVAELKQTLHSMEGECAKTDYVNLQELAPKAA 180
 Db Db 121 SQICBLKYKETKTLIDASVDIRKMRVVAELKQTLHSMEGECAKTDYVNLQELAPKAA 180
 QY QY 181 THPKTEL 187
 Db Db 181 THPKTEL 187

RESULT 7	Db	121 AELKQILHSMGECCRACAEKTDYVNLIQELAPKYAATHPKTEL 163
ID AAO26451 standard; protein; 163 AA.		
XX		
AC AAO26451;		
XX		
DT 07-FEB-2003 (first entry)		
XX		
DE Human ch10-ARPR mature protein.		
XX		
KW Cytostatic; chromosome 10 arginine-rich protein; ch10-ARPR; ARPR; cancer;		
XX		
KW gene therapy; human.		
XX		
OS Homo sapiens.		
XX		
PH Location/Qualifiers		
FT Modified-site 1		
FT /note= "Residue is modified by pyrrolidone carboxylic		
FT acid"		
XX		
PN WO200279246-A2.		
XX		
PD 10-OCT-2002.		
XX		
PP 26-MAR-2002; 2002WO-EP003395.		
XX		
PR 30-MAR-2001; 2001US-0280673P.		
PR 24-MAY-2001; 2001US-0293453P.		
XX		
PA (GENE-) GENEPROT INC.		
XX		
PI Bouguerel et L, Niknejad A, Bairoch A;		
XX		
DR WPI; 2003-040654/03.		
XX		
PT New isolated chromosome 10 arginine-rich protein related polypeptides, useful for detecting and/or monitoring and treating conditions involving aberrant expression of ARPR or uncontrolled growth of tissues, such as cancer.		
XX		
PS Claim 2; Fig 2; 82pp; English.		
XX		
CC The invention relates to isolated chromosome 10 arginine-rich protein related polypeptides (ch10-ARPR), or their fragments. The polypeptides, nucleic acids and antibodies are useful for detecting and/or monitoring and treating conditions involving aberrant expression of ARPR or uncontrolled growth of tissues, such as cancer. The polypeptides are useful as hybridisation probes, in chromosome and gene mapping, for the generation of antisense RNA or DNA and in tissue or cell typing. The methods are useful for detecting and measuring quantities of ARPR in tissues and biological fluids. The host cells are useful for replicating ARPR transcripts or expressing the ARPR proteins or polypeptides. The polynucleotides of the invention can be used to treat disorders by gene therapy. This sequence represents the human ch10-ARPR mature protein of the invention.		
XX		
CC Sequence 163 AA;		
SQ Query Match 86.9%; Score 854; DB 6; Length 163;		
Best Local Similarity 100.0%; Pred. No. 2.1e-81; Mismatches 0; Indels 0; Gaps 0;		
Matches 163; Conservative 0; Mismatches 0; Indels 0; Gaps 0;		
Qy 25 QGQEAGGRPGADCEVKEFLNRFYKSLIDRGVNSLDTIEKELISFCLDTKGENRLCYV 84	Query Match 83.1%; Score 817; DB 5; Length 156;	
Db 1 QGQEAGGRPGADCEVKEFLNRFYKSLIDRGVNSLDTIEKELISFCLDTKGENRLCY 60	Best Local Similarity 100.0%; Pred. No. 1.5e-77; Mismatches 0; Indels 0; Gaps 0;	
Qy 85 LGATKDAKILSEVTRPMSVHMPAMKICEKLRKLDSDQICELKYEKTLIDASVDLRKMRV 144	Qy 32 RPGADCEVKEFLNRFYKSLIDRGVNSLDTIEKELISFCLDTKGENRLCYVATKDA 91	
Db 61 LGATKDAKILSEVTRPMSVHMPAMKICEKLRKLDSDQICELKYEKTLIDASVDLRKMRV 120	Db 1 RPGADCEVKEFLNRFYKSLIDRGVNSLDTIEKELISFCLDTKGENRLCYVATKDA 60	
Qy 145 AELKQILHSMGECCRACAEKTDYVNLIQELAPKYAATHPKTEL 187	Qy 92 ATKILSEVTRPMSVHMPAMKICEKLRKLDSDQICELKYEKTLIDASVDLRKMRV 151.	
Db 61 ATKILSEVTRPMSVHMPAMKICEKLRKLDSDQICELKYEKTLIDASVDLRKMRV 120	Db 61 ATKILSEVTRPMSVHMPAMKICEKLRKLDSDQICELKYEKTLIDASVDLRKMRV 120	

Qy 1512 HSIGEECTACAAEKTDDYNNLQELAPKXATHRKTTEL 187
 * Db 1211 HSIGEECTACAAEKTDDYNNLQELAPKXATHRKTTEL 156

RESULT 9
 ABB82558
 ID ABB82558 standard; protein; 179 AA.
 XX AC ABB82558;
 XX DT 05-FEB-2003 (first entry)
 DE Bovine pro-MANF polypeptide.
 XX KW Mature astrocyte-derived neurotrophic factor; MANF; neuroprotective;
 KW dopaminergic; arginine-rich protein; ARP; pro-MANF; bovine.
 OS Bos sp.
 XX Key Location/Qualifiers
 PH 1_21
 FT /label= Signal_peptide
 PR Protein /label= Mature_protein
 FR XX WO200274956-A2.
 PN 26-SEP-2002.
 PD XX 20-MAR-2002; 2002WO-CA000373.
 PR XX 20-MAR-2001; 2001US-0277516P.
 PA XX (PRES-) PRESCIENT NEUROPHARMA INC.
 PI Commission JW, Raibekas AA;
 DR XX WPI; 2003-040555/03.
 PR New mature astrocyte-derived neurotrophic factor (MANF) polypeptide, for treating
 PR useful as a dopaminergic neuronal survival-promoting factor for Alzheimer's
 PR neurodegenerative diseases, e.g. Parkinson's disease or Alzheimer's
 PR diseases.
 PS Disclosure; Fig 11A; 53pp; English.
 XX The invention relates to a substantially purified mature astrocyte-
 CC derived neurotrophic factor (MANF) polypeptide. The MANF polypeptide is
 CC useful for increasing survival of dopaminergic neurons, growing
 CC dopaminergic neurons for transplantation, preventing dopaminergic
 CC neuronal cell death in a mammal, or especially useful for treating a
 CC disease or disorder of the nervous system in a patient. In particular,
 CC the polypeptide is useful for treating neurodegenerative diseases, e.g.
 CC Parkinson's disease, Alzheimer's disease or amyotrophic lateral
 CC sclerosis. The present sequence represents a bovine pro-MANF polypeptide
 CC sequence 179 AA;
 SQ Query Match 55.5%; Score 546; DB 6; Length 179;
 Best Local Similarity 56.6%; Pred. No. 6.38-49;
 Matches 107; Conservative 28; Mismatches 42; Indels 12; Gaps 3;
 Qy 1 MWCAASPVAVVAFCAAGLILYSHPVLTQGQAGRPGADCEYCKEFLNRFYKSLIDGVNSSL 60
 * Db 1 MWATHGLA-VALAVALSPASRALRQG-----DCGCVISYLGRFQDLKORDVTSF 50
 Qy 61 DTIIEKELIIFPCLDTKGKEVRLCYLIGATDAATKILSETRPMEVHMPAMKICKEKLLKHD 120
 * Db 51 ASIEKELIIFPCLDTKGKEVRLCYLIGATDAATKILSETRPMEVHMPAMKICKEKLLKHD 110

RESULT 9
 AAO26455
 ID AAO26455 standard; protein; 179 AA.
 XX AC AAO26455;
 XX DT 07-FEB-2003 (first entry)
 DE Human ch3-ARPR protein.
 XX KW Cyostatic; chromosome 3 arginine-rich protein; ch3-ARPR; ARPR; cancer;
 KW gene therapy; human.
 XX OS Homo sapiens.
 XX Key Location/Qualifiers
 PH 1_21
 FT Peptide /note= "Signal peptide"
 PR Protein /note= "Mature protein"
 FR XX WO200279246-A2.
 PN 20-OCT-2002.
 PD XX 26-MAR-2002; 2002WO-EP003395.
 PR XX 30-MAR-2001; 2001US-0280673P.
 PR XX 24-MAY-2001; 2001US-0293453P.
 PA XX (GENE-) GENEFROT INC.
 PI XX Bougueret L, Niknejad A, Bairach A;
 DR XX WPI; 2003-040554/03.
 PR XX N-PSDB; AAL3687.
 PT XX New isolated chromosome 10 arginine-rich protein related polypeptides,
 PR useful for detecting and/or monitoring and treating conditions involving
 PR aberrant expression of ARPR or uncontrolled growth of tissues, such as
 PR cancer.
 XX PS Claim 1; Page 73-74; 82pp; English.
 CC XX The invention relates to isolated chromosome 10 arginine-rich protein
 CC related polypeptides (ch10-ARPR), or their fragments. The polypeptides,
 CC nucleic acids and antibodies are useful for detecting and/or monitoring
 CC and treating conditions involving aberrant expression of ARPR or
 CC uncontrolled growth of tissues, such as cancer. The polypeptides are
 CC useful as hybridisation probes, in chromosome and gene mapping, for the
 CC generation of antisense RNA or DNA and in tissue or cell typing. The
 CC methods are useful for detecting and measuring quantities of ARPR in
 CC tissues and biological fluids. The host cells are useful for replicating
 CC ARPR transcripts or expressing the ARPR proteins or polypeptides. The
 CC polynucleotides of the invention can be used to treat disorders by gene
 CC therapy. This sequence represents the human ch3-ARPR protein of the
 CC invention
 XX SQ Sequence 179 AA;
 CC Query Match 54.7%; Score 538; DB 6; Length 179;
 CC Best Local Similarity 56.6%; Pred. No. 4.4e-48;
 CC Matches 107; Conservative 26; Mismatches 44; Indels 12; Gaps 4;
 Qy 1 MWCAASPVAVVAFCAAGLILYSHPVLTQGQAGRPGADCEYCKEFLNRFYKSLIDGVNSSL 60
 * Db 61 MWATHGLA-VALAVALSPASRALRQG-----DCGCVISYLGRFQDLKORDVTSF 50
 Qy 1 MWCAASPVAVVAFCAAGLILYSHPVLTQGQAGRPGADCEYCKEFLNRFYKSLIDGVNSSL 60

substitution or addition in the amino acid sequences. The methods and compositions of the present invention are useful for the diagnosis, prevention and/or treatment of autoimmune disease (rheumatoid arthritis, asthma, multiple sclerosis and diabetes), allergic disease, infectious disease, AIDS, and acute or chronic rejection at organ transplant or bone marrow transplant. This sequence corresponds to a protein involved in T cell activation.

Sequence 182 AA;

Query Match 54.7%; Score 538; DB 8; Length 182;
Best Local Similarity 56.6%; Pred. No. 4.5e-48;
Matches 107; Conservative 26; Mismatches 44; Indels 12; Gaps 4;

Qy 1 MNCASPVAVVAFCAGLIISHPVLTQGAGGRGADECEVCKEFLNRFKSLLDRGUNFSL 60
Db 4 MNTAQGLA-VALALSVLPGSRL-----RPG-DCEVCISVLGRFQDLDKRDVTFSP 53
Qy 61 DTEKEELISFCLDTGKGRNLRCYLTGATKILSVTRPMVSAMKICEKLRKLD 120
Db 54 ATIENELLKFCBARGKENVRLCYTIGADDAAKTIINEVSKPLAHHIVEKICEKLRKLD 113
Qy 121 SQICELKYEKTLDLASVDLRKMRVAELKOLIHSWGEBCRACAKTDYVNLIQELAPKVA- 179
Db 114 SQICBLKDKQIDSLTVDLKLRLVKEKLRKLDWGETKGCAEKSVDYTRKINELMPKXAP 173
Qy 180 -ATHPKTEL 187
Db 174 KAASARTDIL 182
DT 28-MAY-2003 (first entry)

RESULT 13
AEE34881
ID AEE34881 standard; protein; 234 AA.
AC AEE34881;
XX
DT 28-MAY-2003 (first entry)

DE Human ARP protein.
XX
KW Behavioural disorder; attention deficit hyperactivity disorder; ADHD;
XX
KW molecular marker; intellectual disorder; gene therapy; ARP; human.

XX
Homo sapiens.
OS MURDOCH CHILDRENS RES INST.
PN WO200290541-A1.
XX
PD 14-NOV-2002.
XX
PF 03-MAY-2002; 2002WO-AU0000556.
XX
PR 03-MAY-2001; 2001AU-00004756.
PR 04-JUN-2001; 2001AU-00005426.
PR 04-JUN-2001; 2001US-0285811P.
XX
PA (MURD-) MURDOCH CHILDRENS RES INST.
PA (DELA/)- DELATYCKI M.
XX
PI William R., Dahl HM, Forrest SM, Wilcox SA, De Silva MG;
PI Elliott KS, Lynch M;
XX
DR WPI; 2003-111974/10.

XX
PR 26-DEC-2002; 2002JP-00376365.
PR 27-DEC-2002; 2002US-0436473P.
PR 2003JP-001122113.
PR 28-APR-2003; 2003US; 2003JP-0065792P.
PR 21-OCT-2003; 2003JP-00360559.
PR 22-OCT-2003; 2003US-0512846P.
XX
PA (ASAHI-) ASAHI KASEI PHARMA CORP.
XX
PI Matsuda A, Yoneta S;

CC chromosome 3 or an equivalent location on another chromosome, where a mutation at the location alone or in combination with environmental or other genetics factors is associated with or otherwise facilitates the development or progression of the behavioural disorder. The molecular marker is useful for diagnosing behavioural disorder, or assessing the likelihood of developing behavioural disorder, e.g. attention deficit hyperactivity disorder (ADHD) or intellectual disorders. They are also useful for facilitating the development of therapeutic protocols for treatment of the behavioural disorders. Sequences of the invention are useful in manufacturing a genetic probe to determine the likelihood of a subject having a behavioural disorder, such as ADHD. They are also useful for diagnosing, preventing or treating a behavioural disorder. The invention is useful in gene therapy. The present sequence is human ARP protein. This sequence is used in the invention

XX
Sequence 234 AA;

Query	Match	Score	DB	Length
Qy	1 MNCASPVAVVAFCAGLIISHPVLTQGAGGRGADECEVCKEFLNRFKSLLDRGUNFSL 60	54.7%	8	234;
Db	56 MNTAQGLA-VALALSVLPGSRL-----RPG-DCEVCISVLGRFQDLDKRDVTFSP 53	56.6%	48	
Qy	61 DTIBKELISFCLDTGKGRNLRCYLTGATKILSVTRPMVSAMKICEKLRKLD 120	56	44	
Db	106 ATIENELLKFCBARGKENVRLCYTIGADDAAKTIINEVSKPLAHHIVEKICEKLRKLD 113	56	44	
Qy	121 SQICELKYEKTLDLASVDLRKMRVAELKOLIHSWGEBCRACAKTDYVNLIQELAPKVA- 179	61	120	
Db	121 SQICELKYEKTLDLASVDLRKMRVAELKOLIHSWGEBCRACAKTDYVNLIQELAPKVA- 173	61	120	
Qy	180 -ATHPKTEL 187	106	165	
Db	166 SQICELKYDKQIDSLTVDLKLRLVKEKLRKLDWGETKGCAEKSVDYTRKINELMPKXAP 225	166	165	
Qy	180 -ATHPKTEL 187	226	234	
Db	226 KAASARTDIL 234	226	234	

RESULT 14
AD096546
ID AD096546 standard; protein; 234 AA.
XX
AC AD096546;
XX
DT 07-OCT-2004 (first entry)
XX
DE T cell activation associated protein #362.
XX
KW antiallergic; antiarthritic; antiasthmatic; antidiabetic; anti-HIV;
KW antimicrobial; antirheumatic; immunosuppressive; neuroprotective;
KW gene therapy; T cell activation; diagnostic; autoimmune disease;
KW rheumatoid arthritis; asthma; multiple sclerosis; diabetes;
KW allergic disease; infectious disease; AIDS; chronic rejection; organ;
KW bone-marrow transplant.
XX
OS Homo sapiens.
XX
PN WO2004058805-A2.
XX
PD 15-JUL-2004.
XX
PP 25-DEC-2003; 2003WO-JP016715.
XX
PR 26-DEC-2002; 2002JP-00376365.
PR 27-DEC-2002; 2002US-0436473P.
PR 2003JP-001122113.
PR 28-APR-2003; 2003US; 2003JP-0065792P.
PR 21-OCT-2003; 2003JP-00360559.
PR 22-OCT-2003; 2003US-0512846P.
XX
PA (ASAHI-) ASAHI KASEI PHARMA CORP.
XX
PI Matsuda A, Yoneta S;

New molecular marker of a behavioral disorder, useful for diagnosing behavioral disorder, or assessing the likelihood of developing behavioral disorder, e.g. Attention Deficit Hyperactivity Disorder or intellectual disorders.

Claim 21; Fig 11; 390pp; English.

The invention relates to a molecular marker of a behavioral disorder, which is in a genetic form, and comprises a genetic location on

XX WPI; 2004-593134/57.
 DR N-PSDB; ADQ96545.
 XX New purified protein involved in T cell activation, useful for PT diagnosing, preventing and/or treating acquired immunodeficiency syndrome, autoimmune (e.g. rheumatoid arthritis, and diabetes), allergic and infectious diseases.
 XX
 PS Claim 1; SEQ ID NO 724; 2828pp; English.
 XX
 The invention relates to purified proteins and genes encoding them, that are involved in T cell activation (1) and has an amino acid deletion, substitution or addition in the amino acid sequences. The methods and compositions of the present invention are useful for the diagnosis, prevention and/or treatment of autoimmune disease (rheumatoid arthritis, asthma, multiple sclerosis and diabetes), allergic disease, infectious disease, AIDS, and acute or chronic rejection at organ transplant or bone marrow transplant. This sequence corresponds to a protein involved in T cell activation.
 XX
 Sequence 234 AA;

Query Match 54.7%; Score 538; DB 8; Length 234;
 Best Local Similarity 56.6%; Pred. No. 6.2e-48;
 Matches 107; Conservative 26; Mismatches 44; Indels 12; Gaps 4;
 Sequence 234 AA;

```

  1 MWACASPVAVVAPFCAGLIVSHPVVLHQAEAGRPGADCEVCKEFLARFLGVNFSL 60
  56 MWATQGLA-VALA-SVLPGSRAL-----RPG-DCEVCTISVLGRFYQDLKRDVTFS 105
  61 DTEKBLISFCDLTKGENRLCYIYJGATDAATKILSETRPMSTVHMPAMKICBLKILD 120
  106 ATIENBLIKICREARGKENRLCYIYJGATDAATKINEVSKPLAHHIPVKECKLKKRD 165
  121 SQICBLKYEKTLIDASVLDLKRMRVAVELKQILHSMGEBCRAEAKTDYNNLQIQLAPKVA- 179
  166 SQICBLKYDKQDIDSTVDLKLRVYKBLKILDDNGETCKGCAEKSDYIRXINELMPKTA 225
  
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Qy 180 -ATHPKTEL 187
 Db 226 KAASARTDL 234

RESULT 15
 ADS98166 standard; protein; 234 AA.
 XX
 AC ADS98166;
 DT 30-DEC-2004 (first entry)
 XX
 DB Protein factor discovery related isolated human polypeptide, SEQ ID 430.
 XX
 KW antiinflammatory; cytostatic; antimicrobial; gene therapy; inflammation;
 XX
 OS Homo sapiens.
 XX
 PN WO2004087874-A2.
 XX
 PD 14-OCT-2004.

PF 24-MAR-2004; 2004NO-US009202.
 XX
 PR 28-MAR-2003; 2003US-0458824P.
 PA (NUVELO) NUVELO INC.
 PA (DRMANAC) DRMANAC R T.
 PI Tang YT, Zhou P, Wang J, Wang ZW, Hu T;
 XX
 DR WPI; 2004-737686/72.

DR N-PSDB; ADS97931.
 XX New poly nucleotides encoding a polypeptide with biological activity, PT useful for treating inflammation, leukemias, nervous system disorders, or PT infections.
 XX
 PS Claim 20; SEQ ID NO 430; 253pp; English.
 XX
 The invention relates to a novel isolated poly nucleotide comprising any CC of the 235 nucleotide sequences described in the specification. The CC invention further comprises: an isolated poly nucleotide encoding a CC polypeptide with biological activity, where the poly nucleotide hybridizes CC to one of the 235 novel poly nucleotides under stringent hybridization CC conditions, or having greater than about 90% sequence identity with the CC novel poly nucleotide; a vector comprising a novel poly nucleotide; an CC expression vector comprising the novel poly nucleotide; a host cell; an CC genetically engineered to comprise the novel poly nucleotide, which can be CC operatively associated with a regulatory sequence that modulates CC expression of the poly nucleotide in the host cell; an isolated CC poly nucleotide encoded by the novel poly nucleotide, or a poly nucleotide CC hybridizing under stringent conditions to the novel poly nucleotide; a CC composition comprising the poly peptide and a carrier; an antibody CC directed against the poly peptide; a method for detecting the poly peptide in a CC poly nucleotide in a sample; a method for detecting the poly peptide in a CC sample; a method for identifying a compound that binds to the poly peptide CC; a method for producing the poly peptide; an isolated poly peptide CC comprising any of the 235 amino acid sequences described in the CC specification; and a collection of poly nucleotides comprising of at least CC one of the poly nucleotides cited above. The poly peptides and CC poly nucleotides of the invention have antiinflammatory, cytostatic, and CC antimicrobial activities. The novel poly nucleotide may be used to treat CC disorders by gene therapy. The poly peptides and poly nucleotides are CC useful for treating inflammation, leukaemias, nervous system CC disorders, or infections. This sequence represents one of the 235 novel isolated CC poly nucleotides of the invention.
 XX
 Sequence 234 AA;

Query Match 54.7%; Score 538; DB 8; Length 234;
 Best Local Similarity 56.6%; Pred. No. 6.2e-48;
 Matches 107; Conservative 26; Mismatches 44; Indels 12; Gaps 4;
 Sequence 234 AA;

```

  1 MWACASPVAVVAPFCAGLIVSHPVVLHQAEAGRPGADCEVCKEFLARFLGVNFSL 60
  56 MWATQGLA-VALA-SVLPGSRAL-----RPG-DCEVCTISVLGRFYQDLKRDVTFS 105
  
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Qy 1 MWACASPVAVVAPFCAGLIVSHPVVLHQAEAGRPGADCEVCKEFLARFLGVNFSL 60
 Db 56 MWATQGLA-VALA-SVLPGSRAL-----RPG-DCEVCTISVLGRFYQDLKRDVTFS 105
 Qy 61 DTIEXELISFCDLTKGENRLCYIYJGATDAATKILSETRPMSTVHMPAMKICBLKILD 120
 Db 106 ATIENELIKECRBARGKENRLCYIYJGATDAATKINEVSKPLAHHIPVKECKLKKRD 165
 Qy 121 SQICBLKYEKTLIDASVLDLKRMRVAVELKQILHSMGEBCRAEAKTDYNNLQIQLAPKVA- 179
 Db 166 SQICBLKYDKQDIDSTVDLKLRVYKBLKILDDNGETCKGCAEKSDYIRXINELMPKTA 225

Qy 180 -ATHPKTEL 187
 Db 226 KAASARTDL 234

Qy 1 MWACASPVAVVAPFCAGLIVSHPVVLHQAEAGRPGADCEVCKEFLARFLGVNFSL 60
 Db 56 MWATQGLA-VALA-SVLPGSRAL-----RPG-DCEVCTISVLGRFYQDLKRDVTFS 105
 Qy 61 DTIEXELISFCDLTKGENRLCYIYJGATDAATKILSETRPMSTVHMPAMKICBLKILD 120
 Db 106 ATIENELIKECRBARGKENRLCYIYJGATDAATKINEVSKPLAHHIPVKECKLKKRD 165
 Qy 121 SQICBLKYEKTLIDASVLDLKRMRVAVELKQILHSMGEBCRAEAKTDYNNLQIQLAPKVA- 179
 Db 166 SQICBLKYDKQDIDSTVDLKLRVYKBLKILDDNGETCKGCAEKSDYIRXINELMPKTA 225

Qy 180 -ATHPKTEL 187
 Db 226 KAASARTDL 234

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